Waterworks (Continued)

N. J., Bayonne—Bd. Comrs. receives bids about Mar. 14 furnishing and laying about 2100 ft. new 30 in. water pipe upon pile and timber foundations on the east and west banks of Hackensack, double 30 in. c.i. pipe with flexible joints in trench to be dredged under Hackensack River, valves, connections, etc., taking up and relaying 3300 ft. 30 in. c.i. water pipe now located on old right of way on east and west side of Hackensack River and thoroughly cleaning and repainting same, inside and out, removing and relaying same on new right of way parallel with new 30 in. line, furnishing and laying 900 ft. 18 in. c.i. water pipe with valves and appurtenances, 760 ft. 12 in. and 700 ft. 4 in. c.i. water pipe, class "B," Amer. Waterworks standard. Project involves furnishing and laying 950 tons 30 in. flexible joint c.i. pipe, 520 tons 30 in. c.i. pipe, 70 tons 18 in. c.i. pipe, 30 tons 12 in. c.i. pipe, 8 tons 4 in. c.i. pipe, 1700 piles, dredging 100,000 cu.yd. in Hackensack River, placing 1000 cu.yd. concrete, furnishing valves, hydrants, meters, etc. No bids received on Feb. 21. M. R. Sherrerd, 20 Clinton St., Newark, consult. engr. Noted Feb. 13.

Pa., Huntingdon—Boro. retained Gannett, Seelye & Fleming, engrs., 204 Locust St., Harrisburg, to make detailed study and submit report and plans for complete rehabilitation and purification of water-supply system.

Pa., Pottsville—Girard Water Co., Thompson Bldg., having plans prepared for dam to store 370,000,000 gal. water. About $170,000. Gannett, Seelye & Fleming, 204 Locust St., Harrisburg, engrs.

Pa., Williamstown—Williams Valley Water Co. plans to improve water-works, including rebuilding reservoir, extension to water mains, etc. Gannett, Seelye & Fleming, 204 Locust St., Harrisburg, engrs.

Md., Baltimore—City having surveys made by W. E. Lee, water engr., extending water mains along Belair Rd. and vicinity to Gardenville Sect. of city's new annex. About $10,000.

Md., Frederick—City considering installation of water meters to check water loss. About $30,000. E. C. Crum, city engr.

Ala., Birmingham—Birmingham Ry. Light & Power Co., 2001 1st Ave., plans to install new water gas set. About $75,000. H. E. Cox, ch. engr.

Tenn., Nashville—State Legislature petitioned to authorize $500,000 bond issue to modernize waterworks system.

Ky., Newport—City plans to improve water-works to include installation of additional valves and hydrants, connecting Newport and Covington water systems with 10 in. main, and installing additional mains. J. Hermann, comr.

O., St. Bernard—City soon receives bids for improving water-works. About $15,000. H. Nunlist, Traction Bldg., Cincinnati, engr.

Wis., Radisson—Wisconsin-Minneapolis Light & Power Co., Eau Claire, had plans prepared by L. A. De Guer, engr., Wood Co. Bank Bldg., Grand Rapids, for building reservoir here. About $500,000.

Neb., Seward—City plans election to vote on $100,000 bonds to increase water supply.

N. D., Fargo—City plans to replace water mains. About $10,000. W. B. Stevenson, engr.

N. D., Scranton—City plans to install water main system in connection with wells. Dakota Engr. Co., Mitchell, S. D., engrs.

Mo., St. Louis—Bd. Pub. Serv. soon receives bids building 4 in. concrete roofs over 3 settling basins, two 250 x 500 ft. each at Bissell's Point and one 400 x 500 ft. at Baden. About $350,000. E. E. Wall, City Hall, engr.

Okla., Bixby—City voted $85,000 bonds to build water and sewerage systems.

Okla., Sapulpa—City plans election to vote on $75,000 bonds to improve water-works system. R. E. Jeness, city clk.

Utah, Ogden—City plans to extend water system. About $25,000. J. M. Tracy, city engr.

Ore., St. Johns (Portland)—City plans to lay 1 mi. 12 in. water pipe to increase water supply. C. Ross, St. Johns, asst. engr. About $20,000.

Cal., Whittier—Whittier Water Co., 205 North Greenlear Ave., obtained franchise from Bd. Supervs. Los Angeles Co. to build 10 mi. water mains in several streets and roads near here. P. McLaren, supt.

Que., Verdun—City having plans prepared by A. E. Cohy & Sons, engrs., City Hall, building extensions to water works and filtration plant. About $200,000.

Ont., Bear Line—Dover Twp. soon lets contract building pumping plant, and 3 concrete bridges in connection with Cadotte mechanical drainage works. W. G. McGeorge, Chatham, engr.

Ont, Kemptville—Town plans to build water works system. About $25,000. S. H. Guest, clk.

Ont., Parry Sound—Town plans to extend water works system. About $30,000. J. D. Broughton, clk.

Ont., Scarborough—Town council plans to install water works system and garbage disposal plant in southwestern Sect. of city.

BIDS DESIRED

Kan., Junction City—Until Mar. 10, by T. W. Dorn, clk., for furnishing material and labor for improving waterworks system as follows. (1) furnishing c. i. pipe and specials, f.o.b. cars at point of shipment, full freight allowed to here, (2) furnishing hydrants and valves, f.o.b. cars at point of shipment with full freight allowed to here, (3) trenching and laying c. i. pipe and setting hydrants and valves and installing 50 k.w. engine generator set, etc., (4) furnishing material and building rein.-con. reservoir, (5) furnishing f.o.b. cars, 50 k.w. engine generator set. Burns & McDonnell, Interstate Bldg., Kansas City, Mo., engrs. Noted Feb. 13.

N. D., Underwood—Until Mar. 10, by village, building water system to include 50,000 gal. steel tank on 100 ft. steel tower, two 8 in. wells, about 130 ft. deep, two deep well power heads geared direct to 110 volt A. C. motor, pumping station, heating plant, 1770 lin.ft. 8 in. Class "B" c.i. water pipe, 8261 lin.ft. 6 in. Class "B" c.i. water main and 14 hydrants. C. Bauer, clk.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

N. Y., New York—N. J. Hayes, comr. water supply, gas and electricity received bids Feb. 20, furnishing, delivering, unloading, stacking and storing, (a) c.i. valve box castings; (b) valves; (c) hydrants, from J. Fox & Co., 253 Bway., (a) $6152; (c) $32,364; A. P. Smith Mfg. Co., Norman St., East Orange, N. J., (b) $7845; (c) $28,574; J. Wilson Fdry., (a) $7098; Chapman Valve Mfg. Co., 180 Lafayette St., (b) $8235; Kennedy Valve Mfg. Co., 81 John St., (c) $29,232. Noted Feb. 13.

N. J., Jersey City—Bd. Comrs., received only bid building water main under Hackensack and Passaic Rivers, from J. L. Sigretto Co., South Curtis Ave., Brooklyn, N. Y., $599,307. Noted Jan. 30.

N. J., Jersey City—City received only bid furnishing water gate boxes for year, from Fagan Iron Wks., 14th St., $3.24 per lb. Total cost, about $15,000.

Sewers

PROPOSED WORK

N. Y., Endicott—Endicott, Johnson & Co., 753 Bleecker St., Utica, plans to build sewer to serve tannery, also make other extensions. About $200,000.

Pa., Gallitzin—See "Streets & Roads."

Pa., Pittsburgh—City plans to build sewer on property of Baltimore & Ohio R.R., on Furnace Way, involving 1970 ft. 9-20 in. terra cotta pipe. About $13,000. I. C. Palmer, City County Bldg., engr.

Fla., Leesburg—See "Streets and Roads."

Ala., Birmingham—City having surveys made by J. Kendrick, city engr., for sanitary sewerage system. About $5,000,000 will be expended on project.

Tenn., Nashville—City having estimates prepared for extending storm and lateral sewerage systems. W. W. Southgate, city engr.

Wis., Keewatin—City voted $60,000 bonds to build sewers.

Okla., Bixby—See "Water-works."

Utah, Ogden—City plans to expend $100,000 to extend sewerage system. J. M. Tracy, city engr.

Ariz., Clifton—City election Mar. 22 to vote on $150,000 bonds to build sewerage system.

Ore., Klamath Falls—See "Streets and Roads."

Ore., North Bend—See "Streets and Roads."

Ore., Portland—City plans to build East 63rd and Halsey St. sewerage system in following streets: East 63rd St. from center line Halsey St. to 63rd and Willow Sts.; Halsey St. from 70 ft. west of center line East 53rd St., north of Halsey St. to proposed sewer in East 63rd St.; East 62nd St. from center line Thompson to Halsey Sts.; Hancock St. from sewer in East 60th to East 62nd Sts.; East 60th St. from Klickitat to Hancock Sts.; Klickitat St. from center line East 57th to East 60th Sts.; Halsey St. from 170 ft. east of center line of 65th to Halsey Sts.; East 61st St. from 270 ft. north center line Thompson St. and 40 ft. north of north line B'way to Hancock St.; East 60th St. from 40 ft. north of north line B'way to Hancock St.; East 61st St. from center line B'way to Halsey St.; East 60th St. from center line of B'way. to Halsey St.; East 59th St. from 276 ft. north of center line B'way. to Halsey St.; East 58th St. from 326 ft. north from center line, B'way to Halsey St.; Hancock St. from center line East 58th to East 60th Sts.; East 59th St. from Sandy Blvd. to Hancock St.; East 58th St. from south line Sacramento to Hancock Sts.; East 59th St. from 246 ft. south of center line Hancock St. to proposed sewer in Hancock St.; East 58th St. from 200 ft. south center line of Hancock St. to proposed sewer in Hancock St.; Wasco from 100 ft. west from center line East 61st to East 63rd St.; East 62nd St. from center line Clackamas to Wasco Sts.; Clackamas St. from 100 ft. west center line East 61st St. and from 170 ft. east, center line East 62nd St. to proposed sewer in East 62nd St.; East 59th St. from 300 ft. south center line Hassalo St. to center line Halsey St.; Hassalo St. from 234 ft. west center line East 58th to 63rd Sts.; East 62nd St. from 134 ft. north center line of Thompson St. east to East 62nd St. at center Thompson St.; Morris to East 68th Sts.; East 57th St. from center line Wasco to Hassalo Sts.; East 57th St. from 300 ft. south of center line Hassalo St. to proposed sewer in Hassalo St.; East 62nd St. from 172 ft. north south line Stanton to Sacramento Sts.; Brazee St. from 182 ft. west of East 63rd to East 64th Sts.; East 57th St. from 440 ft. south from center line Halsey St. to proposed sewer in Halsey St.; East 64th St. from 125 ft. south of The Almeda to Sacramento St.; The Almeda to East 67th St.; The Almeda from 160 ft. west center line East 66th St. and from 160 ft. east center line East 66th St. to proposed sewer in East 66th St.; The Almeda from 125 ft. west from west line 63rd to 65th Sts.; East 65th St. from 440 ft. north center line Klickitat St. and from Sandy Blvd. to proposed sewer in Klickitat St.; East 61st St. from 440 ft. north center line Klickitat St. and from 504 ft. south center line Siskiyou to Klickitat Sts.; East 58th St. from south line Fremont to Klickitat Sts.; East 59th St. from 424 ft. north from center line Klickitat St. and from 184 ft. south of center line Stanton St. to proposed sewer in Klickitat St.; East 60th St. from 430 ft. north from center line Klickitat St. to sewer in Klickitat St.; Klickitat St. from center line of East 65th St. to center line of 60th St.; East 61st St. from 120 ft. south center line of Holladay Ave. to proposed sewer in Holladay Ave.; in Holladay Ave. from 100 ft. west from center line East 61st St. to O. W. R. & N. Company's right-of-way to East 62nd St.; East 62nd St. from center line Multnomah to Hassalo Sts.; Multnomah St. from 170 ft. east from center line East 61st to East 62nd Sts.; East 62nd St. from northwest line of O. W. R. & N. Company's right-of-way to proposed sewer in Hassalo St.; East 60th St. from 150 ft south center line Multnomah to Halsey Sts.; East 60th St. from center line of Holladay Ave. to Hassalo St.; East 64th St. from 440 ft. north from center line Klickitat St. and from 60 ft. south from center line Siskiyou St. to proposed sewer in Klickitat St.; East 63rd St. from 440 ft. north from center line Klickitat St. and from 206 ft. south from center line Siskiyou to Klickitat Sts.; East 62nd St. from

Sewers (Continued)

428 ft. north from center line Klickitat St. and from 350 ft. south from center line Siskiyou St. to proposed sewer in Klickitat St.; East 55th St. from 326 ft. north center line of Bway to Halsey St.; East 57th St. from 50 ft. south of Sandy Blvd. to Halsey St.; East 56th St. from 400 ft. north from center line Tillamook to Halsey Sts.; Sacramento St. from 132 ft. east from center line East 61st St. to East 60th St.; Sacramento St. from East 68th to East 65th Sts.; Sacramento St. from 150 ft. southwest from center line East 65th St. to proposed sewer in East 65th St.; East 68th St. from 140 ft. north center line Morris St. to proposed sewer in Sacramento St.; East 67th St. from 90 ft. north of center line Siskiyou to Sacramento Sts.; East 66th St. from 100 ft. north of center line Siskiyou to Sacramento Sts.; East 55th St. from 200 ft. north center line of Tillamook to Halsey Sts.; East 54th St. from 200 ft. north center line Tillamook to Halsey Sts.; East 53rd St. from 400 ft. north center line Hancock to Halsey Sts.; East 63rd St. from 340 ft. north of south line of Brazee St. to proposed sewer in Brazee St.; East 65th St. from south line Siskiyou St. to Sacramento St., south through private property to 90 ft. south of Sacramento St.; East 60th St. from center line Klickitat to Hancock Sts.; Klickitat St. from center line East 57th to East 60th Sts.; East 60th St. from 40 ft. north of B'way to Hancock St. at center East 60th St.; East 61st St. from center line B'way. to Halsey St.; East 61st St. from 270 ft. north from center line Thompson to Hancock Sts.; Halsey St. from 170 ft. east of center line East 65th St., south to Halsey St. at center East 63rd St.; East 60th St. from center B'way to Halsey St.; East 62nd St. from center line Clackamas to Wasco Sts.; East 59th St. from 276 ft. north center line B'way to Halsey St.; East 59th St. from 326 ft. north center line B'way to Halsey St.; East 64th St. from Sandy Blvd. and from 354 ft. south center line Stanton St. to proposed sewer in Stanton St.; Hancock St. from center line East 58th to East 60th Sts.; East 59th St. from south line of Sandy Blvd. to proposed sewer in Hancock St.; Wasco St. from 100 ft. west from center line East 61st to East 63rd Sts.; East 58th St. from 200 ft. south center line Hancock St. to proposed sewer in Hancock St.; East 59th St. from 246 ft. south center line Hancock St. to proposed sewer in Hancock St.; East 58th St. from south line Sacramento to Hancock Sts.; East 61st St. from Stanton to Sacramento Sts.; The Almeda from 144 ft. west East 61st St. and from 100 ft. east of East 61st St. to proposed sewer in East 61st St.; Stanton St. from center line East 68th to East 62nd Sts.; East 63rd St. from 10 ft. south of Sandy Blvd. and 125 ft. north of The Almeda to Stanton St. City Engineer Laurgaard's estimates are vitrified sewer pipe or cement sewer pipe, $343,519.33. Sewer is to be constructed with sewer service branches and pipes, lampholes, catchbasins and manholes.

Ore., Portland—Citizens Morningside Addition recommended that city build sewer in 69th St. and Matteson Ave. from East Stark to East Davis Sts. O. L. Aurgaard, city engr.

Ont., West London (London P. O.)—City having plans prepared for building sewers. H. A. Brazier, city engr. About $50,000.

Sask., Estevan—Town plans to rebuild sewers. About $14,000. W. F. Thompson, clk.

BIDS DESIRED

N. Y., Buffalo—Until Mar. 4, by W. F. Schwartz, removing between 2 and 3 mi. deposit estimated at 4342 cu.yd. from 8 ft. trunk sewer without diverting flow. G. H. Norton, Buffalo, engr.

N. J., Phillipsburg—Until Mar. 3, by Bd. Comrs., building sewerage system consisting of collecting trunk sewer involving 4652 ft. 20-27 in. vitr. pipe, and South Main St. storm sewer, involving 1543 ft. 18-24 in. vitr. pipe. C. E. Tilton, town engr.

N. J., South Orange—Until Mar. 3, by Bd. Trustees, Village Hall, grading and building storm water and sanitary sewers in Tichenor Ave. between Montague Pl. and Garfield Pl. About $15,000. I. T. Redfern, engr.

N. J., Trenton—Until Mar. 14, by city, building sewers in Lipton, Clearfield, Bloomfield, Westminster, Newell, Laclede, Lee nd Columbus Aves. and Riverside Dr. L. D. Hirsch, clk. Noted Aug. 8.

N. C., Durham—Until Mar. 10, by M. E. Newsom, mayor, building sanitary sewers in Alston Ave., Main, Morris, Watkins and Spring Sts., Main St. house connections, Neuse River out fall sewer, etc. Work involves 35,355 ft. 6-24 in. vitr. sewer pipe.

Mich., Detroit—Until Mar. 5, by Bd. Pub. Wks., building sewers in Erwin, Burns and Peter Hunt Aves. from Harper Ave. to center of Edgewood Ave., 2859 ft. long, brick or monolithic concrete, pipe to vary from 5 ft. cylinder to 38 x 57 in. egg shape; also public sewer in Dexter Blvd. from Joy Rd. to Davison Ave., 7956 ft. long, brick or monolithic concrete, pipe from 5-6 ft. diameter. C. W. Hubbell, engr. Noted Jan. 30.

N. D., Underwood—Until Mar. 10, by village, building sewerage system, in Dist. No. 1, 16,702 lin.ft. 8-18 in. vitr. sewer pipe, 2870 lin.ft. open ditch, 31 manholes, concrete bulkhead, etc. C. Bauer, clk.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

N. Y., Creedmore—State Hospital Comn., Capitol, Albany, received bids Feb. 19, building sewage disposal plant at Brooklyn State Hospital here, from Murphy Bros., 262 Bay 43rd St., Brooklyn, $22,483 (200 days); L. F. Kelly, Inc., 296 Stuyvesant Ave., Brooklyn, $22,540 (200 days); J. L. Sigretto & Co., 455 Woodhaven, L. I., $23,000 (200 days). Noted Feb. 6.

O., Cleveland—City received bids Feb. 20 building vitr. sewers in (a) East 156th St. from Waterloo to Daniel Aves., involving 810 ft. 12, 24 and 30 in. pipe and forty-seven 24 and 30 in. "Y" branches; (b) 850 ft. Yorick Ave. from Ivanhoe Rd. east, 800 ft. 12 and 15 in. pipe and forty-two 12 and 15 in. "Y" branches; (c) Waldo Rd. from St. Clair to Youik Aves., 498 ft. 12, 15 and 18 in. pipe and twenty-six 15 and 18 in. "Y" branches; (d) East 155th St. from Holmes to Saranac Aves., 510 ft. 12 in. pipe and thirty 12 in. "Y" branches; (e) East 159th St. from Holmes Ave. to Saranac Rd., 1060 ft. 12, 15, 18 and 20 in. pipe and sixty-four 12, 15, 18 and 20 in. "Y" branches; (f) East 160th St. from Calcutta to Waterloo Rds., 510 ft. 12 and 15 in. pipe and twenty-eight 12 and 14 in. "Y" branches; (g) East 157th St. from Holmes Ave. to Saranac Rd., 840 ft. 12, 15 and 18 in. pipe and forty-eight 12, 15 and 18 in. "Y" branches, from D. Pfahl, 723 Guardian Bldg., (a) $5378, (e) $3492, (g) $2568; W. P. Gibbons Constr. Co., 340 Leader News Bldg., (a) $5794, (b) $2736; P. Ciraci, Cleveland, (a) $6164; N. Iafonaro & Co., (b) $3002, (c) $2415; Gallagher-Burke Co., (b) $3287; Fredericks & Hosaine, (c) $2228, (f) $1673; Iannetta Bros., (c) $2411; A. C. Hattendorf & Co., Cleveland, (d) $3697, (e) $3296, (f) $1705, (g) $2454; Water & Sewer Improvement Co., (d) $3872, (e) $3453; Aftoors & Joseph, (d) $3942, (g) $2414; N. Salem, (f) $1639. Noted Feb. 13.

Bridges

PROPOSED WORK

N. Y., Vischer Ferry—State Legislature, Capitol, Albany, petitioned to appropriate $339,000 to build steel plate girder bridge over Mohawk River here.

N. J., Newark—Essex Co. having plans prepared building bridge over Canal on Heller Pkway. F. A. Reimer, co. engr.

Wis., Readstown—Vernon Co., (Viroqua) having plans prepared by State Highway Comn., Madison, for rein. con. bridge here. About $13,500.

Mont., Libby—State Highway Comn., Helena, plans to build bridge across Kootenai River between Montana and Idaho state lines. About $35,000; cost to be borne as follows: State of Montana, $10,000; State of Idaho, $10,000; Lincoln Co., $7500; Boundary Co., Idaho, $7500.

Tex., Victoria—Comrs. Victoria Co. plan to build bridge over Adenosa Creek. About $10,000.

Ariz., Clifton—City election Mar. 29 to vote on $5000 bonds to build bridge over Chase Creek. Greenlee Co. will appropriate $5000 toward cost.

Ariz., Jerome—Bd. Supervs. Yavapai Co. had plans prepared by B. M. Atwood, state engr., Phoenix, building bridge over Verde River here. About $40,000. State appropriated $20,000 toward cost. Noted Mar. 21.

Ore., Coquille—Coos Co. has $30,000 available for bridge over Coquilla River here. Authority must be obtained from State Highway Comn., Coquille River Port and U. S. War Dept. before same can be constructed.

Ont., Bear Line—See "Water Works."

BIDS DESIRED

Mass., Springfield—Until Mar. 20, by Bd. Supervs., Dept. Streets & Eng., Springfield, furnishing falsework and labor for removing three 180 ft. spans of Old Toll Bridge, timber structure across Connecticut River between here and West Springfield and erecting superstructure of new bridge with six 90 ft. wooden lattice truss spans. R. P. Marsh, supt. streets and eng.; advertised in this issue.

Pa., Falls—Until Mar. 11, by G. A. Schreiner, supt. pub. grounds & bldgs., Capitol, Harrisburg, for building bridge over north branch of Susquehanna River, here. Paxson & Morgan, 2nd Nat'l Bank Bldg., Wilkes Barre, consultg. engrs.

Miss., Charleston—Until Mar. 15, by Lamb-Fish Lumber Co., for building sub- and super-structure of steel bridge over Tallahatchie River, 7 mi. west of here, consisting of 3 deck plate girder spans, 40-74 and 61 ft. long, central 74 ft. span to be vertical lift span of "Waddell" type; spans to be carried on 4 concrete piers, pedestals to rest on wooden piles. Work involves 420 cu.yd. concrete in pier bases, 2750 lin.ft. piles below bases of piers, 500 cu.yd. concrete in pier shafts, 130 tons structural steel, 14 tons machinery, 8000 lb. rails and fastenings, 37 M ft. timber in deck. V. K. Wagner, engr.; advertised in this issue.

Ont., Walkerton—Until Mar. 10, by Comrs. Bruce Co. building steel reinforced bridge here. About $25,000. F. B. James, Walkerton, engr.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★Kan., Wichita—See "Streets and Roads."

Structural Steel

PROPOSED WORK

Tex., Ft. Worth—See "Buildings."

Reinforced Concrete

PROPOSED WORK

Mass., Dorchester—(Boston P. O.)—See "Buildings."

R. I., Kent—(Hope P. O.)—See "Miscellaneous."

N. Y., New York—See "Industrial Works."

N. Y., Syracuse—See "Industrial Works."

Mo., St. Louis—See "Industrial Works."

Tex., Ft. Worth—See "Buildings."

Cal., Los Angeles—See "Miscellaneous."

BIDS DESIRED

Mass., Springfield—See "Bridges."

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★N. J., Rochelle Park—See "Miscellaneous."

★Cal., Fresno—See "Industrial Works."

Streets and Roads

PROPOSED WORK

Conn., New Haven—City plans to pave Water, Putnam, Spring and Commerce Sts., Union and Washington Aves., 13,300 ft. long, 30-40 ft. wide. About $300,000. F. L. Ford, city engr.

New York—State Highway Dept., Albany, had plans prepared building 2.59 mi., Perry Center-Moscow Rd., part 1, Wyoming Co., cost, $51,195; 5.57 mi. Greene-Oxford Rd., part 1, and 5.87 mi. Greene-Oxford Rd., part 2, Chenango Co., $106,500 and $117,300 respectively; 4.29 mi. Fredonia-Silver Creek Rd., part 2, Chautauqua Co., $86,000; 3.48 mi. Nicholville-St. Regis Falls Rd., part 1, St. Lawrence Co., $66,572; 3.21 mi. Alton-Walcott Rd., part 2, Wayne Co., $64,010; 1.06 mi. Akin-Johnstown Rd., part 2, Fulton Co., $21,192.

Streets and Roads (Continued)

New York—State Highway Dept., Albany, plans to build 5.16 mi., Part 1 and 3 of New Jersey State Line-Nyack Rd., and 2.47 mi. Stony Point-Tompkins Cove Rd., Rockland Co.; 2.5 mi. Ft. Montgomery-Highland Falls Rd., Orange Co., 6.54 mi., part 1, 2 and 3, of Marathon-Cortland Rd., Cortland Co., 7.04 mi. Pennsylvania-State Line-Ripley-Forsythe Rd., 4.64 mi. Brocton-Fredonia Rd., and 7.64 mi. Westfield-Brocton Rd., Chautauqua Co., 5.07 mi. part 1, Cherry Valley-Sharon Springs Rd., Otsego Co.

New York—State Highway Dept., Albany, plans to appropriate various amounts for repairing and maintaining highways in following counties: Columbia Co., $110,232; Dutchess Co., $117,511; Greene Co., $83,290; Nassau Co., $25,883; Orange Co., $180,010; Putnam Co., $19,520; Rockland Co., $48,445; Suffolk Co., $67,040; Ulster Co., $154,589; Westchester Co., $203,490; Albany Co., $140,200; Clinton Co., $39,300; Essex Co., $43,200; Rensselaer Co., $185,500; Saratoga Co., $125,700; Schenectady Co., $85,400; Warren Co., $46,800; Washington Co., $43,900; Jefferson Co., $141,661; St. Lawrence Co., $112,282; Franklin Co., $55,346; Lewis Co., $41,211; Fulton Co., $37,125; Hamilton Co., $60,578; Herkimer Co., $98,691; Madison Co., $41,959; Montgomery Co., $117,119; Oneida Co., $144,528; Broome Co., $102,230; Chenango Co., $76,060; Delaware Co., $101,750; Otsego Co., $86,860; Schoharie Co., $32,050; Sullivan Co., $72,450; Cayuga Co., $74,890; Cortland Co., $36,940; Onondaga Co., $229,600; Oswego Co., $48,390; Seneca Co., $23,190; Wayne Co., $26,990; Genesee Co., $69,447; Livingston Co., $161,222; Monroe Co., $171,395; Ontario Co., $122,773; Orleans Co., $32,042; Wyoming Co., $23,121; Allegany Co., $78,199; Chemung Co., $44,543; Schuyler Co., $23,843; Steuben Co., $257,916; Tioga Co., $40,308; Tompkins Co., $59,061; Yates Co., $28,230; Cattaraugus Co., $51,442; Chautauqua Co., $26,428; Erie Co., $217,770; Niagara Co., $110,360.

N. Y., New York—M. E. Connolly, pres. Queens Boro., rejected bids received Jan. 29, regulating and grading roadway space, etc., in 88th Ave. from 102nd to 104th Sts. Work will be readvertised later. Noted Feb. 6.

N. Y., Watertown—Jefferson Co. plans to build 3¼ mi. Baggs Corners-Dexter Rd. with Federal Aid; also resurfacing portion roads between Antwerp, Carthage, Cape Vincent, Clayton, Gunns Corners and La Fargeville Twps., and 3 mi. Redwood-Alexandria Bay Route. H. S. Ball, co. highway supt.

N. J., Newark—Essex Co. Park Comn. applied to Finance Com. for permission to convert Speedway into parkway. About $225,000. F. A. Reimer, Court House, engr.

N. J., Passaic—City soon receives bids for improving Passaic Ave. from Lincoln Highway north to Meadow line. Cost over $30,000.

N. J., West Orange—Town Council plans to improve Ridgeview Ave., concrete curbs and gutters and bituminous roadway.

Pa., Gallitzin—Boro. soon receives bids building 2000 ft. 12 in. vitr. clay sewer, 8000 sq.yd. vitr. brick paving on concrete base and 7000 sq.yd. concrete paving. H. F. Conrad, secy. D. W. Dillman, 80-81 Altoona Trust Bldg., Altoona, engr.

Pa., Pittsburgh—City plans to widen Beechwood Blvd. and Greenfield Ave. at intersection with Hazlewood Ave.; widen and repave East Ohio St. from Heinz St. to city line; extend, open and fix grade on Hatfield St. from 50th to 51st St. N. S. Sprague, city engr.

Pa., Pittsburgh—Council passed ordinance excavating, curbing and paving 860 ft. Alexis St. from Saline St. to 10 ft. way at east line of A. R. Neeb's, 18 and 22 ft. wide, involving 2100 sq.yd. pavement on 6 in. concrete base, 1720 lin.ft. steel protected curb and 3500 cu.yd. excav., cost, $20,000; grading, paving and curbing 615 ft. Howley St. from Main St. to Friendship Ave., 24 ft. roadway, involving 1640 sq.yd. asphalt on 6 in. concrete base, 1230 lin.ft. steel protected curb and 900 cu.yd. excav., $14,000. T. Reed, City County Bldg.

Maryland—State Rds. Comn., 600 Garrett Bldg., Baltimore, will have surveys made for improving 14 mi. state highway in Washington Co. beginning at Wolfsville, probably macadam, 22 ft. wide with 3 ft. dirt shoulders.

Md., Baltimore—City Paving Comn. having plans prepared by B. K. Compton, ch. engr., repaving 3800 ft. Wolfe St. from Jefferson to Aliceanna Sts., 450 ft. Chapel St. from Baltimore to Lombard Sts., 26-36 ft wide, sheet asphalt on 6 in. concrete base.

Va., Bristol—C. P. Moore, chn. street com. receives bids about Mar. 20 paving 25,000 yd. State St. between 10th St. and Pennsylvania Ave., Washington Co. Anderson & Cristie Inc., Charlotte, N. C., engrs.

W. Va., New Cumberland—Butler Dist., Hancock Co., plans election Mar. 29 to vote on $100,000 bond issue for road improvements as follows: $50,000 for River Rd. from Kings Creek bridge, to pave road near Clay Dist. line; $25,000 for Swearingen Hill Rd.; $25,000 for Turkey-Foot Rd. C. E. Grafton, co. engr.

W. Va., Wellsburg—Comrs. Brooke Co. plan election to vote on $700,000 bond issue for road improvements this year. H. Donaldson, Beaver Falls, Pa., co. engr.

N. C., Danbury—Stokes Co. plans election Mar. 18 to vote on $35,000 bonds to build roads in Snow Creek Twp. R. G. Petree, co. clk.

Florida—State Rd. Dept., Tallahassee, plans to build 15 mi. State Rd. No. 1, between Milton and eastern line of Santa Rosa Co.; grouted brick pavement, 9 ft. wide, with rock shoulders 3 ft. wide involving 79,200 sq.yd. vitr. brick and $158,400 lin.ft. wood curbing. About $190,000. Will be Federal Aid project for about 4 or 5 mi. G. L. Barnard, asst. engr. W. F. Cocke, state road comr.

Fla., Appling—Comrs. Columbia Co. plan to grade and surface with sand-clay, 9.16 mi. Rd. No. 1 from Lake City to western line of county, 20 ft. wide, cost, $25,000. Work involves 20,180 cu.yd. earth excav., 17,912 cu.yd. clay surface and 7 acres clearing and grubbing. Address W. F. Cocke, state rd. comr., Tallahassee.

Fla., Bunnell—Flagler Co. soon receives bids for improving roads in northwestern section of county. About $100,000.

Fla., Leesburg—City plans election Mar. 12 to vote on $50,000 bonds for opening, widening, grading and paving various streets and building storm sewers. J. C. Lee, acting mayor.

Miss., Cleveland—Bd. Supervs. Bolivar Co. receives bids about Apr. 1, grading and graveling about 30 mi. roads, 9 ft. wide. L. W. Mashburn, Clarksdale, engr.

Miss., Tunica—Bd. Supervs. Tunica Co. receives bids about Apr. 1 grading and graveling 40 mi. roads, 9 ft. wide. L. W. Mashburn, Clarksdale, engr.

Tennessee—State Highway Comn., Nashville, plans to expend between $4,000,000 and $5,000,000 for state highways.

Tenn., Nashville—City having estimates prepared for 100,000 yd. of permanent pavements. W. W. Southgate, city engr.

Ky., Louisville—Bd. Pub. Wks. plans to pave Finger Ave. from Cherokee to Bardstown Rds.; cost, $2910; Breckenidge St. from Logan to Barret Sts., $30,000; Hill St. from 3rd to 4th Sts., $6490; Bank St. from 24th to 25th Sts., $11,555; selected old granite on concrete base; also 15th St. from Main to Walnut Sts., $20,800; 13th St. from Market to Jefferson Sts., $5200. J. Chambers, city engr.

O., Cincinnati—Comrs. Hamilton Co. plan to pave Springfield Pike, through Wyoming Twp. (not including car tracks), cost, $176,538, if semi-monolithic brick pavement is used; $169,204 for bitulithic or asphaltic concrete, and $211,745 for wood block; Carthage-Hamilton Rd. from Decamp Ave. to Wyoming Twp. connecting with proposed county improvements, cost, $109,366 for brick and $112,559 for asphaltic concrete.

O., Cleveland—Comrs. Cuyahoga Co., plan to pave 1¼ mi. Fitzwater Rd. from Brecksville to River Rds., 16 ft. wide, water bound macadam, cost $35,000; also 2 mi. Bentleyville Rd. from Chagrin Falls to township line, 16-25 ft. wide, $75,000. W. A. Stinchcomb, co. engr.

O., Cleveland—Comrs. Cuyahoga Co. will receive bids in spring paving 4¼ mi. Wilson Mills Rd. from Chagrin River Rd. to Euclidville corporate line, concrete, 16 ft. wide. About $206,000.

O., Dayton—Comrs. Montgomery Co. plan to improve 2.64 mi. Xenia Pike, 16 ft. wide, bituminous macadam. About $58,000. S. S. Sharts, co. engr.

Ind., Bicknell—City plans to improve various streets 5 mi. long, 20-24 ft. wide, brick or asphalt wearing surface on concrete base. F. Dunlap, city engr.

Mich., Port Huron—Comrs. St. Clair Co. having surveys and estimates made for building 18 mi. Turnpike Rd. from Bunce Creek to county line, 18 ft. wide, 7 in. concrete. D. Belyea, Port Huron, engr.

Mich., River Rouge—Village plans to pave and grade Great Lakes Ave. from Jefferson Ave. to village limits, 1500 ft. long; also South Dearborn Rd. from Michigan Central R.R. to north limits, 1500 ft. long, 26 ft. wide, concrete. L. Laginess, clk.

Ill., Moline—City plans to lay concrete sidewalks: 600 ft. 26th St. from 11th to 12th Aves.; 1490 ft. 27th Ave. from 4th to 7th Sts.; 450 ft. 13th Ave. from 25th to 26th Sts.; 400 ft. 25th Ave. from 7th to 9th Aves.; 753 ft. 5th Ave. from 50th St. east; 980 ft. 6th Ave. and 51st St.; 10th Ave. from 18th St. to 18th St., B; 10th St. from east side to 18th Ave.; 18th St. A, from 12th and 18th Aves., both sides; 16th St. 160 ft. north on 26th Ave.; 16th St. from 28th to 30th Aves. L. Paton, city engr.

Wisconsin—A. R. Hirst, state highway engr., Madison, has announced that following amounts are available for road work during coming year: state aid construction (new and unexpended appropriations), $3,800,000; Federal Aid construction (new and unexpected appropriations), $3,200,000; county construction (not aided), $1,500,000; state and county maintenance, $2,500,000, and township construction, $3,000,000.

Ia., Hartley—City receives bids about Mar. 25 paving 6th St. from 2nd to 3rd Aves., 5th St. from 2nd to 5th Aves., 4th St. from 1st to 5th Aves., 3rd St. from 1st to 6th Aves., 2nd St. from 1st to 6th Aves., 1st St. from south city limits to 6th Ave., Railroad St. from 1st to 6th Aves., Edwards St. from 1st to 4th Aves., Wilbur St. from 1st to 6th Aves., 4th Ave. from 4th St. west to city limits, 1 mi. 3rd Ave., 4th Ave. from 1st to 2nd Sts., 1 mi. 2nd Ave., 1st Ave. from 4th to Wilbur Sts., and 4 blocks alleys. H. H. Green, Cedar Rapids, engr.

Ia., Logan—City receives bids about Mar. 25, paving, grading, curbing, guttering and building storm sewers in 55 blocks. C. L. Huff, C. E. Logan engr.

Minn., Anoka—Comrs. Anoka Co., receive bids in spring building Central Ave. Rd. from Anoka to Minneapolis involving 6 mi. concrete surfacing, (70,000 sq.yd. concrete paving) 86,000 cu.yd. excav. and 22,000 cu.yd. sand clay surfacing. H. H. Thurston, engr.

Minn., Elbow Lake—Comrs. Grant Co. receive bids in April or May for grading and graveling 5 mi. Federal Aid Project No. 28. W. E. Burgess, co. engr.

Minn., Fergus Falls—Comrs. Ottertail Co. receive bids in April for 18 mi. roadwork. Federal Aid Project No. 29, involving 150,000 cu.yd. excav., 22,000 cu.yd. gravel surfacing and 1 culvert. F. L. Flygare, co. engr.

Minn., Long Prairie — Comrs. Todd Co. receive bids in April or May grading and gravel surfacing 10 mi. highway, Federal Aid Project No. 26. A. M. Graves, co. engr.

Minn., St. Cloud—Comrs. Stearns Co. receive bids in March or April building Federal Aid Project No. 25. Work involves 20 mi. roadwork, 90,000 cu.yd. grading and graveling and 3 bridges. M. J. Cleveland, co. engr.

Minn., St. James—City receives bids in April for 37,000 yds. paving. J. W. Shaffer, 405 New York Life Bldg., Minneapolis, engr.

North Dakota—State Highway Comn., Bismarck, soon receives bids building 4-5 mi. gravel road from Churches Ferry east, cost, $12,385; 17.1 mi. northwest and southeast from Devils Lake Twp., $20,123; 3 mi. east from Devils Lake Twp., $4100, all in Ramsey Co. Noted Dec. 19.

N. D., Crosby—Comrs. Divide Co. plan to build about 20 to 25 mi. Federal Aid road project this summer. W. E. Vadnais, Co. aud.

Streets and Roads (Continued)

N. D., Grafton—City having plans prepared repaving entire business section, with concrete, asphaltic concrete and bitulithic. C. L. Pillsbury Co., 805-11 Metropolitan Life Bldg., engrs.

Montana—State Highway Dept., Helena, plans to grade 33 mi. Cardwell Basin—Nigger Hollow Rd., in Jefferson Co., and 16.75 mi. Larina-Tuffky-Emory Rd., Musselshell Co., 26 ft. wide. About $39,930 and $18,200 respectively. P. D. Pratt, state highway engr.

Mo., Carthage—Comrs. Jasper Co. soon let contract paving 6½ mi. Joplin-Gulfton Rd., 24 ft. wide, concrete. J. Malang, supt. Joplin Special Rd. Dist.

Mo., Danville—New Florence Special Rd. Dist., Montgomery Co., plans to pave 8 mi. state highway with rock between St. Louis and Kansas City, in Mineola Hills section. About $275,000.

Mo., Kansas City—Jackson Co. having estimates prepared for resurfacing 4 county highways, 15 mi. long. O. C. Sheley, co. engr.

Mo., St. Louis—Pitzman's Co., engrs., 615 Chestnut St., soon lets contract for 96,000 cu.yd. grading on south line Euclid Ave. from Bircher Rd. to Florrisant Ave. Cost to exceed $10,000.

Texas—State Highway Comn., Austin, plans to extend State Highway No. 20 from Austin to Fredericksburg through Johnson City. Work involves 80 mi. macadam pavement.

Tex., Ballinger—Comrs. Runnels Co. had plans prepared for 20 mi. of Highway No. 7.

Tex., Bastrop—Bastrop Co. election Mar. 15 to vote on $250,000 bonds to build roads in Elgin Precinct; $35,000 for Paige Precinct and $35,000 for McDade Precinct.

Tex., Dallas—City plans to pave Munger Ave. from Haskell to Carroll Sts. and Cleveland St. from Grand to Forest Aves., bitulithic. G. D. Fairtrace, city engr.

Tex., Dallas—City plans to pave Colonial Ave. from Lenway to city limits with uvalde asphalt; Cleveland St. from Forest to Grand Aves. and Munger Ave. from Haskell to Carroll Ave., bitulithic. G. D. Fairtrace, city engr.

Tex., Groesbeck—Limestone Co. election Mar. 18 to vote on $250,000 bonds to build roads in Mexia Precinct; $54,000 for Cooledge Precinct and $60,000 for Shileh Precinct.

Tex., Hillsboro—Comrs. Hill Co., Road Dist. No. 3 plan election to vote on $250,000 bonds to improve roads. Noted Sept. 12.

Tex., Houston—Comrs. Harris Co. soon let contract repairing South Main St., Chocolate Bayou, and Seabrook and La Porte Rds. H. L. Washburn, co. aud. Noted Jan. 2.

Tex., McKinney—Collin Co., Plano Dist., plans election Mar. 15 to vote on $450,000 bonds to build roads; Weston Dist. plans to vote $350,000 bonds for same purpose. Noted Jan. 9.

Tex., Rockwall—Rockwall Co. voted $800,000 bonds and State Highway Comn. appropriated $100,000 to build roads to include 13 mi. concrete road, 16 ft. wide across county from Dallas Co. line to Hunt Co. line.

Tex., San Antonio—City plans to expend $100,000 to macadamize about 30 mi. streets. Part of work now being done by day labor; bids on remainder will be called for shortly. H. Helland, City Hall, engr.

Colo., Denver—City plans to surface about 50 blocks streets in North Denver Surfacing Dist. No. 5, smelter slag, sand, and gravel and loam, cost $46,803; also pave 12 blocks in Alley Paving Dist. No. 49, asphalt. About $20,975. J. A. Hunter, city engr.

Colo., Grand Junction—Comrs. Mesa Co. plan to expend $10,000 of state road funds to build water bound macadam road east from city limits.

Utah, Brigham—City plans to pave and gutter various streets. About $75,000. C. O. Rospellez, Brigham, engr.

Utah, Ogden—City receives bids about May 1, for 100,000 sq.yd. pavement. About $350,000. J. M. Tracy, engr.

Ariz., Clifton—Greenlee Co. plans election Mar. 22 to vote on $200,000 bonds to build highways between Morenci and Metcalf Twps. and through Wards canyon. A. L. Terry, clk. bd. supervs.

Wash., Kent—City plans to pave portions Titus St. and Scenic Way, concrete, 20 ft. wide. L. E. Price, city clk.

Oregon—U. S. Senate, Wash., D. C., passed bill increasing State Rd. Fund (Federal Aid) from $1,189,108 to $4,330,944. Noted Jan. 30.

Ore., Astoria—City plans to improve following streets: Agate St., 40 ft. grade, 24 ft. hard surface; Alameda St. from Taylor to Hull Sts., 8 ft. sidewalks; Bond St., replanking with 4 in. lumber; Hume, Florence and Rivington Sts., 24 ft. hard surface; Franklin St., 24 ft. hard surface; 5th St., 24 ft. hard surface; Grand St., 30 ft. hard surface; Duane St. from 14th St. to point 144 ft. east of present pavement; 3rd St., 24 ft. hard surface; 45th St., grading and 30 ft. hard surface; 2nd St., grading; Lexington St., 24 ft. hard surface; Franklin St., 40 ft. hard surface; 9th St., 24 ft. hard surface; 10th St. from Grand to Lexington Sts., 11th St. from Jerome to Niagara Sts. G. T. McClean, city engr.

Ore., Bend—City plans to expend $20,000 to improve streets. R. B. Gould, engr.

Ore., Klamath Falls—City had plans and estimates prepared for paving Crescent Ave. and installing sewerage system in Mills Addition. About $49,400. J. Cleghorn, Astoria, city engr.

Ore., Klamath Falls—Klamath Co. plans following road works: Klamath Falls-Merrill Rd., cost, $20,000; Green Springs-Ashland Rd., $20,000; Klamath Falls-Algoma Rd., $25,000, general repair work, $25,000.

Ore., North Bend—City plans to pave sidewalks and install sewers in Porter Hill Dist. About $50,000.

Ore., Portland—G. R. Funk, city aud., soon lets contract improving Bidwell Ave. from East 7th to Milwaukee Sts., bitulithic or asphaltic concrete pavement; East 47th St. from East Sherman to East Lincoln Sts., Hasam class B, gravel, asphaltic, concrete or bitulithic; East 38th St. from East Yamhill to Belmont Sts., bitulithic or asphaltic concrete; East Oak St. from East 28th St. to Castle Ann Addition, Hassam, class B gravel, bitulithic or asphaltic concrete; Portsmouth Ave. from Willis Blvd to south line of Columbia Slough Rd., asphalt or artificial stone sidewalks and grading.

California—State Highway Comn., Forum Bldg., Sacramento, had estimates prepared by W. C. Howe, div. engr., placing cost of building 11 mi. Cuyama Rd. through mountains in Santa Barbara Co., at $256,922. Work involves 250,000 cu.yd. excav., 18,000 ft. corrugated iron pipe for culverts, 46 tons reinforcing steel and 500,000 ft. timber for bridges; 4 mi. of road are graded.

Cal., Compton—City receives bids in March grading, paving, curbing, etc., 1500 ft. Perebinth, Tamarind and Magnolia Sts., involving 60,000 sq.ft. grading, 6 in. decomposed granite paving, 3000 lin.ft. cement curbs, 10,000 sq.ft. cement sidewalks, etc. E. N. Lynch, 716 Central Bldg., Los Angeles, engr.

Cal., Sacramento—City Comn. receives bids in April grading, curbing, guttering, etc., 1600 ft. 33rd St. from Truckee Way to Y St., 50 ft. wide, involving 6020 sq.yd. asphalt pavement on 4 in. concrete base, 2154 lin.ft. concrete curbing and guttering, 5442 sq.ft. concrete sidewalk and 1614 cu. yd. earth excav. F. C. Miller, city engr.

Cal., Visalia—Bd. Supervs. Tulare Co. plans to grade and pave several miles of county highways, concrete. About $140,000 available. Bids for paving Springville-Worth Rd. will soon be received. G. R. Prestidge, co. clk.

Que., Three Rivers—City receives bids in March, paving various streets. About $30,000. A. Boliveau, 43 Des Forges St., engr.

Que., Verdun—City plans to pave sections of Gordon, Galt, Hickson, Mulvavkoy and Regina Sts., 60 ft. wide, asphalt. About $100,000. A. E. Gehysens, City Hall, engr.

Ont., Pembroke—Renfrew Co. plans to expend $20,000 to build roads. R. J. Rooney, clk.

Ont., St. Thomas—Elgin Co. plans to expend $90,000 to build roads. K. W. McKay, clk.

Ont., Sarnia—Lambton Co. plans to expend $100,000 to build roads. J. Braziel, clk.

B. C., Burnaby—Municipal Council plans to build roads. About $20,000. A. G. Moore, clk.

BIDS DESIRED

Rhode Island—Until Mar. 5, by State Bd. Pub. Rds., State House, Providence, building 2.04 mi. state highway on Boston Neck Rd., North Kingstown and Narragansett Twps., involving 7000 cu.yd. earth excav., 1450 cu.yd. stone fill foundation, 7875 cu.yd. gravel foundation, 7000 tons crushed stone, and 60,000 gal. hauling, heating and applying bituminous binder; advertised in this issue.

N. Y., Brooklyn—Until Mar. 5, by E. Riegelmann, boro. pres., grading, curbing and laying sidewalks on East 8th St. from Ave. K to Ave. M, paving 86th St. from 21st to 22nd Aves., 36th St. from 15th Ave. to Chester St., and repaving 4th Ave. from 60th St. to Bay Ridge Ave., asphalt.

N. J., Hoboken—Until Mar. 4, by city, grading, paving and improving, 4th, 7th, 11th, 12th and Grand Sts., and Willow Ave. About $100,000. J. O. Whittemore, city engr. Noted Feb. 20.

N. J., Mt. Holly—Until Mar. 5, by Bd. Freeholders Burlington Co., paving 15,870 sq.yd. Burlington-Florence Rd., macadam surface on macadam foundation, 18 ft. wide. J. Logan, 11 Main St., engr.

N. J., Salem—Until Mar. 10, by Bd. Freeholders Salem Co., paving 4th and 5th Sects. Malaga-Pennsgrove Rd., Pilesgrove Twp., involving 41,453 sq.yd. concrete surface pavement. I. C. Smashey, co. clk.; advertised in this issue.

N. J., South Orange—See "Sewers."

N. J., West Orange—Until Mar. 4, by town, for concrete curbing and bituminous paving on Parkside Ave., concrete curbing on Central Ave., concrete curbing and guttering on Harrison Ave., concrete curbing on Eagle Rock Ave., between Washington St. and Harrison Ave.

Md., Baltimore—Until Mar. 12, by Bd. Awards, repaving, recurbing and regrading 6260 ft. Lanvale St. from Payson St. to Druid Hill Ave., 750 ft. Payson St. from Lanvale to Mosher Sts., 790 ft. Lafayette Ave. from Fulton Ave. to Payson St., 690 ft. Edmondson Ave. from Fremont to Clinton Aves., 660 ft. Brune St. from Franklin to Harlem Aves., 1520 ft. Clinton Ave. from Franklin to Myrtle Aves., 1465 ft. Argyle Ave. from Lanvale to Sewell Sts., 785 ft. McElderry St. from Milton to Linwood Aves., 1200 ft. McElderry St. from Wolfe to Chester Sts., 1180 ft. Madison St. from Patterson Park Ave. to Luzerne St., 1700 ft. Collington Ave. from Ashland Ave. to Biddle St., 1700 ft. Lakewood Ave. from Baltimore to Monument Sts., 650 ft. Jefferson St. from Milton to Lakewood Aves., 650 ft. Orleans St. from Milton to Lakewood Aves., 2250 ft. Randall St. from Hanover to Covington Sts., 680 ft. William St. from Clement to Randall Sts., 740 ft. Battery Ave., from Gittings to Randall Sts., 1460 ft. Covington St. from Fort Ave. to Wells St., 530 ft. Covington St. from Gittings to Falsum Sts., 430 ft. Clement St. from Light to Williams Sts., 960 ft. Grindall St. from William to Covington Sts., 1163 ft. Clement St. from Riverside Ave. to Key Highway, 350 ft. Poultney St. from Light to Patapsco Sts., 325 ft. Barclay St. from Chase to Biddle Sts., 1190 ft. Forrest St. from Manument to Eager Sts., 325 ft. Forrest St. from Chase to Biddle Sts., 970 ft. Ashland Ave. from McKim to Aisquith Sts., 1515 ft. Somerset St. from Madison to Biddle Sts., 40 ft. wide, sheet asphalt on 6 in. concrete base with armored concrete curbing; also 3000 ft. Jordan Alley, from Biddle St. to North Ave., 1520 ft. Camel Alley from Madison to Cathedral Sts., 220 ft. Brexton St. from Eager to Cathedral Sts., 15-20 ft. wide, cement and concrete. R. K. Compton, ch. engr; advertised in this issue. Noted Feb. 20.

W. Va., Fayetteville—Until Mar. 10, by Comrs. Fayette Co., paving 9.5 mi. county highway. R. J. Stegall, clk.; advertised in this issue.

Streets and Roads (Continued)

W. Va., New Cumberland—Until Mar. 4, by R. R. Hobbs, clk. Hancock Co., building 4 mi. brick and concrete roads. C. E. Grafton, co. engr.

W. Va., Webster Springs—Until Mar. 7, by Comrs. Webster Co., grading and draining 60 mi. roads. P. B. Logan, co. engr.

Ga., Atlanta—Until Mar. 15, by Comr. Rds. & Revenues of Fulton Co., paving following roads: Paces Ferry Rd., from Court House Buckhead to Howell Mill Rd., 34,000 sq.yds.; Marietta Rd. from end of car line at Inman Yards to Marietta car line at river, 26,000 sq.yd.; Cascade Ave. and Gordon St. from Holderness St. to Sewell Rd., 30,000 sq.yd.; Cascade Ave., from Sewell Rd. to Fairburn Rd., 27,000 sq.yd.; Hapeville Rd., from East Point Depot to Fulton Ave. in Hapeville, 26,000 sq.yd.; concrete, bituminous concrete, vitr. brick or patented pavement such as vibrolithic or bitulithic. C. M. Holland, 507 Court House, purch. agt.

Fla., Sumterville—Until Mar. 3, by State Rd. Dept. and Comrs. Sumter Co. at Bushnell, grading and surfacing with sand clay 6.7 mi. road between Sumterville and Bushnell, 20 ft. roadway, 16 ft. surface. About $18,000. Work involves 24,827 cu.yd. earth excav., 10,463 cu.yd. clay surface, 58,960 sq.yd. mixing and shaping. Address W. F. Cocke, Tallahassee, state rd. comr.

Ala., Eutaw—Until Mar. 11, by Comrs. Green Co., surfacing with clay gravel 4.6 mi. of Eutaw and Tuscaloosa Rd., part State Trunk Rd. No. 7, between here and Knoxville. W. S. Keller, Montgomery, state highway engr.

Ala., Selma—Until Mar. 10, by Bd. Revenue Dallas Co. rebuilding and resurfacing with gravel about 15 mi. Benton Rd. between here and Safford. W. M. Vaughan, judge. Noted Jan. 23.

Miss., Coffeeville—Until Mar. 3, by Bd. Superv. Yalobusha Co., building 6 mi. Cottner Rd., 6½ mi. Banner Rd.; 7 mi. Coffeeville and Pontotoc Rd., in Beat 2; 5½ mi. Water Valley and Shoales Rd. in Beat 2; 2 mi. Pittsboro Rd., from Banner Rd. to Calhoun Co. L. T. Wisdom, clk.

La., Alexandria—Until Mar. 3, by city, building and paving concrete sidewalks with cement curbs on south side of 110th St., from Lee to Winn St., also cement curb on both sides of North 16th St., from Gould Ave. to Bayou Rapides. I. W. Sylvester, city engr.

O., Mt. Vernon—Until Mar. 10, by A. D. Rinehart, aud., Knox Co., grading and paving with tar-bound macadam and building culverts and bridges on 1.78 mi. Sect. A Centerburg-Croton Rd., 14 ft. wide. About $40,692; advertised in this issue.

Indiana—By Bd. Co. Comrs. building roads in following counties:

Mar. 8, Hunting Co., Huntington, building roads in Jefferson, Dallas and Salamonie Twps. O. E. Eviston, aud.

Mar. 10, St. Joseph Co., South Bend, concrete road in Penn Twp. A. F. Wolf, aud.

Mar. 13, Marion Co., Indianapolis, building 2 roads in Franklin Twp. L. K. Fesler, aud.

Michigan—Until Mar. 11, by F. F. Rogers, comr. state highways, Lansing, grading, paving with concrete and installing culverts on 5.585 mi. Paw Paw Rd. to Kalamazoo.

Wis., Kenosha—Until Mar. 6, by city, paving 80,000 sq.yd., brick, sheet asphalt, rein.-con. or vertical fibre brick. P. J. Hurtgen, city engr. Noted Jan. 30.

Ia., Davenport—Until Mar. 4, by city, paving following streets and alleys:

3903 lin.ft. Telegraph Rd. from Davie to 3rd Sts., involving 9390 sq.yd. vitr. brick, 7486 lin.ft. cement curbing, 7486 lin.ft. gutter, 4151 cu.yd. earth excav., 281 ft. wood header curb and 9390 sq.yd. 5 in. concrete base.

2314 lin.ft. Union St. from Washington to Howell Sts., 7332 sq.yd. vitr. brick, 4704 lin.ft. cement curbing, 4704 lin.ft. cement gutter 2213 cu.yd. earth excav., 156 ft. wood header curb and 7332 sy.yd. 5 in. concrete base.

320 lin.ft. Vine St. from 9th to 10th Sts., 834 sq.yd. vitr. brick, 678 lin.ft. cement curbing, 678 lin.ft. cement gutter, 271 cu. yd. earth excav., 62 ft. wood header curb and 834 sq.yd. 5 in. concrete base.

345 lin.ft. Western Ave. from 5th to 6th Sts., 1036 sq.yd. vitr. brick, 809 lin.ft. cement curbing, 65 lin.ft. cement gutter, 339 cu. yd. earth excav. and 1036 sq.yd. 5 in. concrete base.

2385 lin.ft. Taney St. from Fillmore to Davie Sts., 5686 sq.yd. vitr. brick, 4739 lin.ft. cement curbing, 4739 lin.ft. cement gutter, 2860 cu.yd. earth excav., 106 ft. wood header curb and 7332 sq.yd. 5 in. concrete base.

2178 lin.ft. Grand Ave. from Henry St. to South Ave., 6918 sq.yd. vitr. brick, 4477 lin.ft. cement curbing, 4477 lin.ft. cement gutter, 2144 cu.yd. earth excav., 185 ft. wood header curb and 6917 sq.yd. 5 in. concrete base.

1821 lin.ft. Grand Court from Grand to Carey Ave., 7261 sq.yd. vitr. brick, 6620 lin.ft. cement curbing, 6620 lin.ft. cement gutter, 2428 cu.yd. earth excav., 50 lin.ft. wood header curb and 7261 sq.yd. 5 in. concrete base.

1301 lin.ft. Gaines St. from Locust to Lombard Sts., 4023 sq.yd. vitr. brick, 2646 lin.ft. cement curbing, 2646 lin.ft. cement gutter, 1250 cu.yd. earth excav., 76 ft. wood header curb and 4023 sq.yd. 5 in. concrete base.

360 lin.ft. Fair Ave. from 30th to 31st Sts., 1213 sq.yd. vitr. brick, 776 lin.ft. cement curbing, 776 lin.ft. cement gutter, 78 ft. wood header curb and 1213 sq.yd. 5 in. concrete base.

Claussen St. from Hancock Ave. to 129 ft. east, 441 sq.yd. vitr. brick, 270 lin.ft. cement curbing, 270 lin.ft. cement gutter, 141 cu.yd. earth excav., 31 ft. wood header curb and 441 sq.yd. 5 in. concrete base.

2219 lin.ft. Eastern Ave. from North to High Sts., 5819 sq.yd. vitr. brick, 1454 cu. yd. earth excav., 179 lin.ft. wood header curb and 5819 sq.yd. 5 in. concrete base.

1030 lin.ft. Bridge Ave. from High St. to Nicholas Ave., 1027 sq.yd. vitr. brick, 2097 lin.ft. cement curbing, 2097 lin.ft. cement gutter, 179 lin.ft. wood header curb, 3333 cu.yd. earth excav. and 1027 sq.yd. 5 in. concrete base.

2700 lin.ft. Clark St. from Rockingham to Telegraph Rds., 8879 sq.yd. vitr. brick, 5531 lin.ft. cement curbing, 5531 lin.ft. cement gutter, 4255 cu.yd. earth excav., 383 lin.ft. wood header curb and 8879 sq.yd. 5 in. concrete base.

354 lin.ft. Bowditch St. from west line Lincoln to east line Linwood Aves., 1063 sq.yd. vitr. brick, 709 lin.ft. cement curbing, 709 lin.ft. cement gutter, 701 cu.yd. earth excav. and 1063 sq.yd. 5 in. concrete base.

619 lin.ft. Carey Ave. from High to Henry Sts., 2027 sq.yd. vitr. brick, 1281 lin.ft. cement curbing, 1281 lin.ft. cement gutter, 624 cu.yd. earth excav., 49 ft. wood header curb and 2027 sq.yd. 5 in. concrete base.

8th St. from Grand Ave. to 220 ft. west, 642 sq.yd. vitr. brick, 498 lin.ft. cement curbing, 186 cu.yd. earth excav. and 642 sq.yd. 5 in. concrete base.

237 lin.ft. Grant St. from Harrison to Main St., 581 sq.yd. vitr. brick, 163 cu.yd. earth excav., 30 ft. wood header curb and 581 sq.yd. 5 in. concrete base.

1577 lin.ft. Hancock Ave. from Rockingham Rd. to Lincoln Ave., 3537 sq.yd. vitr. brick, 2992 lin.ft. cement curbing, 2992 lin.ft. cement gutter, 1211 cu.yd. earth excav., 133 lin.ft. wood header curb and 3537 sq.yd. 5 in. concrete base.

287 lin.ft. Hancock Ave. from Lincoln to Linwood Ave., 951 sq.yd. vitr. brick, 805 lin.ft. cement curbing, 805 lin.ft. cement gutter, 344 cu.yd. earth excav., 28 ft. wood header curb and 951 sq.yd. 5 in. concrete base.

1325 lin.ft. Hayes St. from Harrison to Brady Sts., 4150 sq.yd. vitr. brick, 1095 cu.yd. earth excav., 240 ft. wood header curb and 4150 sq.yd. 5 in. concrete base.

620 lin.ft. High St. from Iowa to Farnam Sts., 1545 sq.yd. vitr. brick, 1227 lin.ft. cement curbing, 1227 lin.ft. cement gutter, 740 cu.yd. earth excav., 115 ft. wood header curb and 1545 sq.yd. 5 in. concrete base.

819 lin.ft. Howell St. from Union to Locust Sts., 2044 sq.yd. vitr. brick, 1676 lin.ft. cement curbing, 1676 lin.ft. cement gutter, 666 cu.yd. earth excav., 80 ft. wood header curb and 2044 sq.yd. 5 in. concrete base.

1082 lin.ft. Le Claire St. from Central Park to South Ave., 3465 sq.yd. vitr. brick, 2189 lin.ft. cement curbing, 2189 lin.ft. cement gutter, 1569 cu.yd. earth excav., 112 ft. wood header curb and 3465 sq.yd. 5 in. concrete base.

2232 lin.ft. Locust St. from Carey to Eastern Aves., 8361 sq.yd. vitr. brick, 2206 cu.yd. earth excav., 331 ft. wood header curb and 8361 sq.yd. 5 in. concrete base.

738 lin.ft. Lombard St. from Scott to Gaines Sts., 1535 lin.ft. cement curbing, 1535 lin.ft. cement gutter, 1815 sq.yd. vitr. brick, 596 cu.yd. earth excav. and 1815 sq.yd. 5 in. concrete base.

1991 lin.ft. Lombard St. from Marquette to Sturdevant Sts., 7336 sq.yd. vitr. brick, 3982 lin.ft. cement curbing, 2352 cu.yd. earth excav., 159 ft. wood header curb and 7336 sq.yd. 5 in. concrete base.

2810 lin.ft. McKinley Ave. from Lincoln Ave. to Clark St., 9864 sq.yd. vitr. brick, 5790 lin.ft. cement curbing, 5790 lin.ft. cement gutter, 4002 lin.ft. earth excav., 320 ft. wood header curb and 9864 sq.yd. 5 in. concrete base.

320 lin.ft. Myrtle St. from 9th to 10th Sts., 784 sq.yd. vitr. brick, 658 lin.ft. cement curbing, 658 lin.ft. cement gutter, 257 cu.yd. earth excav., 40 lin.ft. wood header curb and 784 sq.yd. 5 in. concrete base.

820 lin.ft. Myrtle St. from Locust to High Sts., 2085 sq.yd. vitr. brick, 1696 lin.ft. cement curbing, 1696 lin.ft. cement gutter, 707 cu.yd. earth excav., 102 ft. wood header curb and 2085 sq.yd. 5 in. concrete base.

800 lin.ft. 2nd St. from Lincoln to Elmwood Aves., 2537 sq.yd. vitr. brick, 1651 lin.ft. cement curbing, 1651 lin.ft. cement gutter, 937 cu.yd. earth excav. and 2537 sq.yd. 5 in. concrete base.

1240 lin.ft. Scott St. from Locust to Lombard Sts., 3044 sq.yd. vitr. brick, 2529 lin.ft. cement curbing, 2529 lin.ft. cement gutter, 1726 cu.yd. earth excav., 90 ft. wood header curb and 3044 sq.yd. 5 in. concrete.

3rd St., from Telegraph Rd. to 490 ft. east, 3987 sq.yd. vitr. brick, 1161 lin.ft. cement curbing, 1161 lin.ft. cement gutter, 1249 cu.yd. earth excav. and 3987 sq.yd. 5 in. concrete base. R. E. Sawistowsky, city engr. Noted Jan. 23.

Neb., Lincoln—Until Mar. 8, by city repaving Dist. No. 66, paving Dists. Nos. 403, 405 and 409, 25-40 ft. wide. T. H. Berb, city clk. Noted Feb. 20.

Mont., Roundup—Until Mar. 4, by Comrs. Musselshell Co., graveling 15 mi. Goulding Creek Rd. About $15,000. R. E. Bushnell, co. engr.

Mo., Kansas City—Until Mar. 18, by Park Bd., grading Van Brunt Blvd. from 12th St. to Linwood Blvd., involving 130,000 cu.ft. earth excav. About $75,000.

Mo., St. Louis—Until Mar. 18, by Bd. Pub. Serv., paving and curbing 1300 ft. Minnesota Ave. from Osceola to Meramec Sts., vitr. brick with concrete curb. About $18,000. W. W. Horner, city engr.

Ariz., Clifton—Until Mar. 10, by Supervs. Greenlee Co., building Sects. 1-6 and portion of 7, of Clifton-Springerville Rd. A. L. Terry, co. clk. Noted Feb. 6.

Cal., Riverside—Until Mar. 17, by Bd. Supervs. Riverside Co. paving 26,000 sq. ft. 4 in. oiled macadam road involving 480 yd. excav.

Cal., Santa Ana—Until Mar. 18, by Orange Co., paving Garden Grove Ave., involving 108,000 sq. ft. 4 in. concrete pavement; also paving 160,000 ft. Losa Lamitos Rd., 2 in. topeka or bitulithic surface.

Que., Lingwich—Until Mar. 3, by A. B. MacDonald, Gould, building 11 mi. Sherbrooke-Boaucevillo Rd., 40-45 ft. wide from Bury to Winslow twps.

Que., St. Hubert—Until Mar. 3, by city grading and macadamizing 3 mi. Grando Ligno Rd. About $23,000. A. N. Beaugard, St. Hubert, engr.

Ont., Ottawa—Until Mar. 31, by Dept. Pub. Wks., for macadamizing 10 mi. road in county of Gaspe, Que., 35-40 ft. wide.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**N. Y., Albany**—W. W. Wotherspoon, supt. pub. wks., let contract building certain parts of approach from Court St. and South Ave. to Barge Canal Terminal at Rochester, Contr. 57, to C. Klehn, 26 Gard-

Streets and Roads (Continued)

ner Bldg., Utica, $120,598. Work involves 13,000 cu.yd. excav., 12,650 cu.yd. forming embankment, 42 cu.yd. 1-1 1-½ rein.-con., 134 cu.yd. 1st class rein.-con., 160 cu. yd. 2nd class concrete in column bases, 2285 cu.yd. 2nd class concrete, except as provided for by previous item, 23,000 b.m. timber in temporary cribs and fender, 143 cu.yd. stone filling for cribs, 294,000 lb. metal reinforcement, 7000 lb. c.i. drains and outlet pipes, 163 lin.ft. 12 in. and 168 lin. ft. 15 in. vitr. pipe and specials, 24,200 sq.ft. waterproofing concrete, etc. Noted Jan. 23.

★**N. Y., New York**—M. E. Connolly, pres. Queens Boro., let contract to Sicilian Asphalt Paving Co., regulating, grading, curbing, laying sidewalks and paving Hancock St. from Wyckoff Ave. to Evergreen branch of Long Island R. R., sheet asphalt on 6 in. concrete base, $5448; to C. Gallagher, 124th St. from Metropolitan to Jamaica Aves., $9595; 123rd St. from point north of 85th to 89th Aves., $13,863; Grimm Contg. Co., 125th St. from Jamaica to 89th Aves., $5042; R. A. Hess, Elmhurst, L. I., 150th St. from Beaver Rd. to South Rd., $826; Armand Pl. from Walter St. to point 250 ft. southwest, $1276; McCarthy, Rush & Ryan, East Trenton Ave., Bronx, Barclay Ave., from Parsons Blvd. to 147th St., $592; Delaware Ave. from Parsons Ave. to 147th St., $298; 153rd St. from Northern Blvd. to 34th Ave., $1250; Gates Ave. from Grandview to Forest Aves., $1040; E. W. Fitzpatrick, 244 Jackson Ave., Long Island City, Emerson St. from Freedom Ave. to Oxford St. $21,450; Peace Bros., 20 Main St., Flushing, 102nd St. from Jamaica Ave. to Park Lane, S., $300. Noted Feb. 6.

★**Pa., Pittsburgh**—Chartiers Twp. let contract grading, paving and curbing 958 ft. Middletown Rd. from Ladoga St. to Ashtola Alley, 30 ft. wide, to M. O'Herron & Co., 1st and McKeen Sts., $19,272. Work involves 1560 sq.yd. vitr. brick, 1050 lin.ft. steel protected curbing, 1520 sq.yd. stone, 3800 cu.yd. earth excav. and 3080 sq.yd. 6 in. concrete base. Noted Aug. 30.

★**Virginia**—State Highway Comn., Richmond, let contract building 3½ mi. Richmond-Petersburg Turnpike from Chesterfield city limits to Falling Creek, Chesterfield Co., concrete, 16 ft. wide, to A. W. McClay, Richmond, $70,057. Noted Feb. 13.

Virginia—State Highway Comn., Richmond, received bids Feb. 17, building 3½ mi. road from Ridgeway to North Carolina line, 20 ft. wide, from T. W. Chandler, Virgilina, $21,758; L. Chandler, Virgilina, $24,428; G. T. Franklin Co., Pocahontas, $27,982; 8½ mi. gravel road from Franklin to Courtland, from R. R. Deuby, Norfolk, $90,417; Bryson & Beasley, Newport News, $100,802. Noted Feb. 13.

★**Fla., Jacksonville**—Comrs. Duval Co. let contract laying 5000 sq.yd. brick paving and 10,000 lin.ft. concrete curbing on St. Augustine Rd. from end of present brick road to Bayard Co. line, to Wilson Constr. Co., Clark Bldg., laying brick $.59 per sq.yd., curbing $.09 per lin.ft. Noted Feb. 13.

★**Fla., Lakeland**—City rescinded contract let to McDonald Paving Co., for 18 mi. paved streets, and has relet same, to Alabama Paving Co., Amer. Trust Bldg., Birmingham, Ala. Noted Feb. 6.

O., Cleveland—City received bids paving

(a) Mirlo Ave. from West 67th to West 73rd St., involving 15,755 sq.ft. 5 in. brick block, 650 cu.yd. excav. and 100 sq.ft. 3 in. Berea sidewalk;

(b) East 123rd St. from Ray to Taft Aves., 31,529 sq.ft. 5 in. brick block, 400 cu.yd. excav., 2305 cu.ft. Berea curb and 380 sq.ft. 2½ in. Berea sidewalk;

(c) West 87th St. from Brinswald to Emily Aves., 8218 sq.ft. brick block, 600 cu.yd. excav., 10 cu.ft. Medina curb and 80 sq.ft. 3 in. Berea sidewalk;

(d) West 7th St. from Railway to Novak Aves., 7600 sq.ft. 5 in. brick block on 6 in. concrete base, 560 cu.yd. excav. and 40 cu.ft. Berea curb;

(e) Dover Ave. from West 37th to West 39th Sts., 29,250 sq.ft. 4 in. brick block on 6 in. concrete base, 1550 cu.yd. excav., 2175 cu.ft. Berea curb and 205 sq.ft. 3 in. Berea sidewalk;

(f) East 106th St. and Hanley Ave. from St. Clair Ave. to Parkwood Dr., 9670 sq.ft. 4 in. brick block on 6 in. concrete base, 1020 cu.ft. Berea curb and 200 sq.ft. 3 in. Berea sidewalk;

(g) East 104th Pl. from Olivet to Hampton Aves., 3405 sq.ft. 5 in. brick block, 110 cu.yd. excav. and 20 cu.ft. Berea curb;

(h) Henley Ave. from West 77th to West 99th Sts., 17,800 sq.ft. 5 in. brick block, 1000 cu.yd. excav. and 30 cu.ft. Medina curb;

(i) Conover Court from West 85th to West 89th Sts., 4865 sq.yd. 5 in. brick block, 210 cu.yd. excav., 100 lin.ft. 5 in. Medina stone and 210 sq.ft. 2½ in. sawed Berea sidewalk;

(j) Otis Court from East 71st to East 75th Sts., 6385 sq.ft. 5 in. brick block, 270 cu.yd. excav., 135 sq.ft. 6 in. concrete base and 150 sq.ft. 3 in. Berea sidewalk;

(k) Dickens Ave. from East 91st to East 93rd Sts., 10,800 sq.ft. 5 in. brick block on 6 in. concrete base, 778 cu.ft. Medina curb and 250 sq.ft. 3 in. Berea sidewalk;

(l) Almira Ave. from West 105th to West 110th St., 29,405 sq.ft. 4 in. brick block on 6 in. concrete base, 1780 cu.yd. excav., 2176 cu.ft. Berea curb and 560 sq.ft. 3 in. Berea sidewalk;

(m) West 30th St. from Broadview Dr. to Colburn Ave., 17,900 sq.ft. 4 in. brick block on 6 in. concrete base, 815 cu.yd. excav., 1560 cu.yd. Berea curb and 400 sq.ft. 3 in. Berea sidewalk;

(n) West 38th St. from Denison Ave. south, 15,930 sq.ft. 4 in. brick block on 6 in. concrete base, 520 cu.yd. excav., 1230 cu.ft. Berea curb and 150 sq.ft. 3 in. Berea sidewalk;

(o) Novak Ave. from West 7th to West 5th Sts., 5150 sq.ft. 5 in. brick block on 6 in. concrete foundation, and 705 cu.yd. excav.

(p) Eliot Ave. from East 102nd St. to 120 ft. east of 105th St., 17,560 sq.ft. 4 in. brick block on 6 in. concrete base, 600 cu.yd. excav., 1425 cu.ft. Berea curb and 300 sq.ft. 3 in. Berea sidewalk;

(q) Lowell Ave. from East 93rd to East 96th St., 12,070 sq.ft. 5 in. brick block, 550 cu.yd. excav., 880 cu.ft. Berea curb and 300 sq.ft. 3 in. Berea sidewalk;

(r) Tecumseh Ave. from East 108th to East 110th St., 8700 sq.ft. 5 in. brick block, 360 cu.yd. excav., and 20 sq.ft. 3 in. Berea sidewalk;

(s) Olivet Ave. from East 108th St. to Hathaway Ave., 10,380 sq.ft. 5 in. brick block, 425 cu.yd. excav. and 10 sq.ft. 3 in. Berea sidewalk;

(t) Tanner Ave. from East 103rd St. to West End, 7320 sq.ft. 5 in. brick block, 340 cu.yd. excav., 905 cu.ft. Berea curb and 50 sq.ft. 3 in. Berea sidewalk;

(u) Pythias Ave. from East 156th to 161st St., 22,465 sq.ft. 4 in. brick block on 6 in. concrete base, 1020 cu.yd excav., 1900 cu.ft. Berea curb and 125 sq.ft. 3 in. Berea sidewalk;

(v) Pennant Ave. from West 83rd to West 85th St., 5910 sq.ft. 5 in. brick block, 190 cu.yd. excav., 50 cu.ft. Berea curb and 125 lin.ft. 3 in. Berea sidewalk;

(w) Wright Ave. from East 93rd St. to east end of street, 4615 sq.ft. 5 in. brick block, 200 cu.yd. excav., 432 cu.ft. Berea curb and 20 sq.ft. 3 in. Berea sidewalk, from

Freshwater Constr. Co., 9703 Madison Ave., (a) $6516; (c) $5022; (d) $4679; (e) $19,724; (h) $8684; (i) $2401; (l) $19,658; (o) $3189; (u) $15,366; (v) $2561.

Rieley Bros., 348 Arcade Bldg., (a) $6637; (b) $14,979; (d) $4625; (f) $8697; (g) $1309; (h) 8739; (i) $2431; (j) $2924; (p) $11,744; (q) $6314; (r) $3425; (s) $4084; (t) $4304; (u) $15,416; (v) $2604; (w) $2321.

Baldwin Bros., 506 Rose Bldg., (a) $6673; (b) $14,671; (c) $5003; (e) $19,681; (f) $8581; (i) $2441; (k) $7909; (m) $12,567; (n) $10,082; (o) $3158; (p) $11,880; (q) $6331; (r) $3435; (s) $4124; (t) $4297; (v) $2617; (w) $2370.

Gould & Maybach, 823 East 150th St., (b) $15,077; (f) $8453; (g) $1329; (k) $8070; (p) $11,737; (u) $15,315; (w) $2376.

Roehl Bros., Clark and West 25th Sts., (c) $4980; (d) $4541; (e) $18,821; (h) $8719; (l) $20,064; (m) $12,143; (n) $9512; (o) $3128; (q) $6395.

G. B. Herring, (g) $1304; (r) $314; (s) $4072; (t) $4230.

A. M. Pepa Paving Co., (j) $2901.

Bentley Bros., 403 Electric Bldg., (j) $2923; (k) $8100.

McHugh Bros., (l) $19,111; (m) $11,975; (n) $9817. Noted Jan. 30.

★**Mich., Detroit**—Dept. Pub. Wks. let contracts paving, grading and curbing:

(a) Corbin Ave. from Herman to 12th Sts., 24 ft. wide, involving 3431 sq.yd. asphalt, 6 in. concrete base, 2439 lin.ft. Berea or Amherst curbing, 1609 cu.yd. earth excav., 70 cu.yd. concrete, under and behind curb, 192 lin.ft. retaining stone.

(b) Army St. from Beard to Green Sts., 26 ft. wide, involving 2059 sq.yd. asphalt 6 in. concrete base, 1454 lin.ft. Berea or Amherst curbing, 924 cu.yd. earth excav., 40 cu.yd. concrete under and behind curb, 26 lin.ft. retaining stone.

(c) St. Hedwig Ave. from Lockwood St. to Junction Ave., 26 ft. wide, involving 1755 sq.yd. asphalt, 6 in. concrete base, 1064 lin.ft. Berea or Amherst curbing, 910 cu.yd. earth excav., 33 cu.yd. concrete under and behind curb, 180 lin.ft. retaining stone.

(d) Putnam Ave. from Lawton to Maybury Aves., 26 ft. wide, involving 1233 sq.ft. asphalt, 6 in. concrete base, 866 lin.ft. Berea or Amherst curbing, 630 cu.yd. earth excav., 25 cu.yd. concrete under and behind curbs, 70 lin.ft. retaining stone.

(e) Greusel Ave. from Otis to Kutie Sts., 26 ft. wide, involving 1843 sq.yd. asphalt, 6 in. concrete base, 1172 lin.ft. Berea or Amherst curbing, 995 cu.yd. earth excav., 34 cu.yd. concrete under and behind curb, 104 lin.ft. retaining stone.

(f) Weudall Ave. from Ferndale to Woodmere Aves., 26 ft. wide, involving 4834 sq. yd. asphalt, 6 in. concrete base, 3183 lin.ft. Berea or Amherst curbing, 2007 cu.yd. earth excav., 91 cu.yd. concrete under and behind curb, 227 lin.ft. retaining stone.

(g) Rathborne St. from Springwells to Lawndale Sts., 26 ft. wide, involving 4919 sq.yd. asphalt, 6 in. concrete base, 3323 lin.ft. Berea or Medina curbing, 2443 cu.yd. earth excav., 92 cu.yd. concrete under and behind curb, 124 lin.ft. retaining stone.

(h) Covin St., from Fort to Krupp Sts.

(i) Gilbert Ave. from north line Michigan Ave. to south line Wagner St., 26 ft. wide, involving 5642 cu.yd. earth excav., 7702 lin.ft. Amherst curbing, 13,312 sq.yd. asphalt, 6 in. concrete base, 246 cu.yd. concrete under and behind curb, 1625 lin.ft. retaining stone.

(j) Anderdon Ave. from north line Kercheval Ave. to south line Charlevoix Ave., 26 ft. wide, Involving 3190 cu.yd. earth excav., 3236 lin.ft. Amherst curbing, 1941 sq.yd. asphaltic concrete, 6 in. concrete base, 92 cu.yd. concrete under and behind curb, 166 lin.ft. retaining stone.

(k) Trenton Ave. from north line Ferndale to south line Woodmere Aves., 26 ft. wide, involving 1784 cu.yd. earth excav., 2734 lin.ft. Amherst curbing, 4182 sq.yd. asphaltic concrete, 6 in. concrete base, 73 cu.yd. concrete under and behind curb, 228 lin.ft. retaining stone.

(l) Oregon Ave. from present pavement to east line Colfax Ave., 26 ft. wide, involving 2041 cu.yd. earth excav., 2056 lin. ft. Amherst curbing, 3053 sq.yd. asphaltic concrete, 6 in. concrete base, 57 cu.yd. concrete under and behind curb, 78 lin.ft. retaining stone.

(m) Petoskey Ave. from north curb Joy Ave. to north line Graham Ave., 26 ft. wide, involving 1787 cu.yd. earth excav., 1965 lin.ft. Amherst curbing, 3038 sq.yd. asphaltic concrete, 6 in. concrete base, 57 cu.yd. concrete under and behind curb, 210 lin.ft. retaining stone.

(n) Boxwood Ave. from north line Moore to south line Tireman Aves., 26 ft. wide, involving 1080 cu.yd. earth excav., 1424 lin.ft Amherst curbing, 2178 sq.yd. asphaltic concrete 6 in. concrete base, 41 cu.yd. concrete under and behind curb, 108 lin.ft. retaining stone.

(o) White St. from north line Jefferson Ave. to south line Harbaugh St., 20 ft. wide, involving 800 cu.yd. earth excav., 1564 lin.ft. Amherst curbing, 1866 sq.yd. asphaltic concrete, 6 in. concrete base, 46 cu.yd. concrete under and behind curb, 156 lin.ft. retaining stone.

(p) Wilson Ave. from north line Virginia Park to south line Euclid Ave., 26 ft. wide, involving 754 cu.yd. earth excav., 674 lin.ft. Berea curbing, 1058 sq.yd. asphaltic concrete, 6 in. concrete base, 19 cu.yd. concrete under and behind curb, 65 lin.ft. retaining stone.

(q) Wilson Ave. from north line Bethune to south line Pallister Aves., 26 ft. wide, involving 520 cu.yd. earth excav., 588 lin.ft. Berea curbing, 827 sq.yd. asphaltic concrete, 6 in. concrete base, 16 cu.yd. concrete under and behind curb.

(r) Wilson Ave. from north line Clairmont to south line Atkinson Aves., 26 ft. wide, involving 597 cu.yd. earth excav., 533 lin.ft. Berea curbing, 892 sq.yd. asphaltic concrete, 6 in. concrete base, 17 cu.yd. concrete under and behind curb, 104 lin.ft. retaining stone, etc.

Cleveland Trinidad Paving Co., 2940 Woodward Ave., (a) $14,820; (p) $5234; (q) $3976; (r) $4258.

Streets and Roads (Continued)

Detroit Asphalt Paving Co., 20 McGraw Bldg., (b) $8714; (c) $7831; (d) $6373; (e) $8138; (f) $20,284; (g) $21,034; (h) $10,446; (i) $55,674; (j) $21,241; (k) $17,523; (n) $9320; (o) $8389.

W. B. Brady Constr. Co., 1972 Grand River Ave., (l) $13,580; (m) $13,304. Noted Feb. 20.

★**Mich., Detroit**—Dept. Pub. Wks. let contracts paving with asphalt on 6 in. concrete foundation, Berea or Medina curb:

(a) Begole Ave. from Beachwood to Tireman Aves., 26 ft. wide.

(b) Medbury Ave. from Van Dyke to Fisher Aves., 26 ft. wide.

(c) Philadelphia Ave. from Cameron Ave. to Detroit, Grand Haven & Milwaukee R. R., 26 ft. wide.

(d) Tuxedo Ave. from 12th St. to Oakmans Subdivision, 1 roadway 26 ft. wide and 2 roadways 20 ft. wide.

(e) Willett Ave. from Livernois Ave.

(f) Iosco St. from Mackinaw St. to Grand River Ave., 26 ft. wide.

(g) Eliery St. from Harper to Milwaukee Aves.

(h) Medbury Ave. from Frontenac to Baldwin Aves., 26 ft. wide.

(i) Kanter St. from Moran St. to Mt. Elliott Ave.

(j) Howard St. from Junction to Cavalry Aves., 26 ft. wide.

(k) Richton Ave. from Oakman Ave. to 12th St., 24 ft. wide.

(l) Cardoni Ave. from Holbrook to Lynn Aves., to

Detroit Asphalt Paving Co., 20 McGraw Bldg., (a) $30,888; (b) $27,912; (e) $15,314; (h) $17,856.

Cleveland Trinidad Paving Co., 2940 Woodward Ave., (c) $21,162; (d) $17,875; (k) $7355; (l) $35,571.

W. B. Brady Constr. Co., 1972 Grand River Ave., (f) $12,121; (g) $18,550; (i) $12,036; (j) $13,620. Noted Jan. 30.

★**Mich., Mt. Clemens**—Comrs. Macomb Co. let contract paving 11 mi. Gratiot Highway from county line between Macomb and Wayne (Detroit) Counties to city limits, 24 ft. wide, sheet asphalt on 7 in. concrete base, to Detroit Asphalt Paving Co., 20 McGraw Bldg., Detroit, $543,140. Noted Sept. 26.

★**Ill., Belleville**—Comrs. St. Clair Co. let contract grading Belleville-Hecker Rd. and Belleville-Millstadt Rd., to C. Tritt, Reeb R.R. Sta. No. 4; cost $33,944 and $15,922 respectively.

★**Ill., East St. Louis**—City let contract paving 1500 ft. State St. from 33rd to 38th Sts., concrete and brick, 42 ft. wide, to L. Rich Constr. Co., 429 Missouri Ave., $27,208. Noted Feb. 20.

★**Ill., Springfield**—City let contract improving 1½ mi. lower Terre Haute Rd., brick, to A. J. Parish, Paris, $29,432.

★**Kan., Wichita—Sedgwick Co.** let contract grading, draining and surfacing Central Ave. Rd., 38,871.2 ft. long, 18 ft. wide, concrete, involving 37,314 cu.yd. earth excav., 132 cu.yd. Class "A" concrete, 457.1 cu.yd. Class "C" concrete, 26.5 cu.yd. hand rail concrete, 35,621 lbs. reinforcing steel, 51,828 sq.yd. earth shoulders, 77,742 sq.yd. concrete pavement, exclusive of joint and cement, 1250 lin.ft. guard fence, 2 markers, 20,970 lin.ft. joints for concrete pavement, to Smith Graham Constr. Co., Augusta, $208,583; also building 5 rein.-con. bridges and repairing and lengthening wing walls of rein.-con. bridge, to Missouri Valley Bridge & Iron Co., 4th and Walnut Sts., Leavenworth, $14,329 and $2983 respectively. Noted Jan. 9.

★**North Dakota**—State Highway Comrs., Bismarck, let contract building 16 mi. State Aid Project No. 1672, West from Glenfield in Foster Co., to Stanley Bros., Glenfield, $18,288.

★**Tex., Albany**—Comrs., Shackleford Co. let contract building 11.2 mi. highway, to P. K. Clarks. About $62,000. Noted Feb. 6.

★**Tex., Houston**—City let contract paving Washington Ave., from Wichman St. to city limits, to Texas Bitulithic Co., 701 Foster Bldg., $60,284. Noted Oct. 3.

★**Tex., McAllen**—City let contract paving various streets with trap rock and tarvia, gravel base, to Finley Method Co., 703 Stewart Bldg., Houston. About $75,000.

Tex., San Antonio—City received bids Feb. 3, for fine grading and surfacing with 2 in. bituminous trap rock, rock asphalt or bitulithic, 5500 ft. New Braunfels Ave. from Van Ness to Commerce St., 30 ft. wide, from Uvalde Rock Asphalt Co., Swearengen Bldg., $1.25 per sq.yd. with 10 yr. maintenance, $.25 per sq.yd. for grading, total, $36,300; $1.20 per sq.yd. with 5 yr. maintenance, $.25 per sq.yd. for grading, total, $25,090; Texas Bitulithic Co., Gunter Bldg., $1.75 per sq.yd. with 5 yr. maintenance, $.23 per sq.yd. for grading, total $47,916; $1.70 per sq.yd. without maintenance, $.23 per sq.yd. for grading, total, $46,706; Finley Method Co., Stewart Bldg., Houston, $1.50 per sq.yd. with 5 yr. maintenance, $.23 per sq.yd. for grading, total, $41,866; $1.17 per sq.yd. without maintenance, $.23 per sq.yd. for grading, total, $33,880. (Figures based on approximate amount of 34,000 sq.yd.) Noted Jan. 30.

★**Cal., San Diego**—City let contract paving Park Blvd., to G. R. Daley, McMuse Bldg San Diego, $50,889.

★**Cal., San Diego**—City let contract grading and paving La Jolla Blvd., 20 ft. wide, to D. H. Ryan, 3606 Sierra St., San Diego, $89,246. Work involves 13,380 lin.ft. concrete pavement with oil and screening surface. Noted Feb. 20.

Railways

PROPOSED WORK

New York—H. C. Allen, city engr., Syracuse, and J. W. Pfau, ch. constr. engr., New York Central R.R., 1044 Trinity Ave., and associates, plan to build "loop line railroad" serving Barge Canal Terminal and connecting trackage around harbor. Address J. W. Pfau.

New York—New York Central R.R. and Rutland R.R. both of Grand Central Terminal, New York City, having plans prepared extending tracks of Rutland R.R. along river front, Ogdensburg; also building drawbridge over mouth of Oswegatchie River. G. W. Kittredge, New York City, ch. engr. of former, and J. G. Schillinger, Rutland, Vt., ch. engr. of latter.

Texas—T. J. O'Donnell, pres. Midland & Northwestern Ry., Midland, and others, plan to build 80 mi. railroad from Stephenville to De Leon, Desdemona, Ranger, Eastland, Cisco and Breckenridge.

BIDS DESIRED

Oregon—Until Mar. 22, by Whitney Co., 904 Lewis Bldg., Portland, building 11 mi. standard gauge railroad in Bay City, Tillamook Co.; advertised in this issue.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Oregon**—Shevlin-Hixon Lumber Co., Bend, let contract building 9 mi. logging road along Upper Deschutes River, to Sims & Carlson, Spokane, Wash. About $100,000.

Excavation and Dredging

PROPOSED WORK

N. Y., Long Island City—Canal—State Legislature, Capitol, Albany, petitioned to appropriate sum for work in connection with canal to be built here.

Wis., Oconto—Ditch—Comrs. Oconto Co. soon let contract for 15 mi. open ditch and 12,000 ft. 16-24 in. tile. A. Rocfue, Lena, clk.

Ark., Jonesboro—Ditch—Comrs. Cache River D. D., Craighead, Lawrence and Jackson counties, rejected bids received Feb. 18, building 22 mi. main ditch and 12 mi. lateral involving 5,000,000 cu.yd. excav. J. R. Rhyne, Corning, engr. Noted Feb. 6.

Ore., Madras—Irrigation—Dirs. Farmers' Commercial Bodies & Irrigations Projects, applied to Secy. of Interior, Wash., D. C., for authority to start work on Merger Irrigation project, 200,000 acres in Deschutes River territory. Tentative plans prepared for making surveys for reservoir sites; surveys to be made by Government Geologist.

Cal., Elsinore—Irrigation—G. I. Lamy, engr., Marsh-Strong Bldg., Los Angeles, applied to State Water Comn. to appropriate 120 second feet of water of Lake Elsinore to irrigate 20,000 acres of land. Plans include construction of 42 mi. canal, lined partly with concrete, power and pumping plant. About $1,000,000.

Cal., Imperial — Irrigation — Imperial Water Co. No. 12 plans to sell bonds to build irrigation canal to supply water to several thousand acres west of present Westside canal.

Cal., Los Angeles—Irrigation—W. Mulholland, ch. engr. bd. pub. serv., 645 South Olive St., reported that project to supply water from Los Angeles aqueduct to 30,000 acres in Westgate annexed district is feasible. Plans include construction of 25 mi. pipe line from San Fernando reservoir to district and distributing system to supply domestic and irrigation water. About $1,950,000. Noted Dec. 19.

Cal., Porterville—Irrigation—A. J. Bolin, Porterville, representing Kansas City syndicate, plans to level 1000 acres land and build irrigation system. About $100,000.

BIDS DESIRED

Miss., Marks—Excavation—Until Mar. 10, by Marks D. D., excavating drainage channels; about 100,000 yd. floating dredge work. W. R. Wallis, engr.

Minn., Marshall—Ditch—Until Mar. 5, by R. D. Houdersheldt, aud. Lyon Co., digging and building Co. Ditch No. 29 involving 66,584 lin.ft. 6-30 in. tile, 2 mi. open work involving 42,843 cu.yd. About $29,082 for tile work and $6426 for open work. Noted Dec. 12.

Minn., Waseca—Ditch—Until Mar. 10, by Waseca Co. (Waseca), and Steele Co. (Owatonna), building Judicial Ditch No. 5. About $17,579. Work involves 81,464 cu.yd. excav., 66.29 cu.yd. concrete, 1850 ft. 12 in. tile, 2 flood water inlets, 21,015 ft. 3 wire fence and leveling spoil banks. T. Peterson, co. aud. Noted Dec. 19.

S. D., Vermillion—Drainage—Until Mar. 4, by W. L. Russell, aud. Clay Co. building Bethel Tile Drain.

Ark., Harrisburg—Channel—Until Mar. 11, by D. D. No. 7, Poinsett Co., building 22 mi. channel, 30-50 ft. base, to intercept floor water from hills on west of district, involving 1,670,000 yd. floating dredgework. Pride & Fairley, Blytheville, engrs.

Ark., Osceola—Dredging—Until Mar. 20, by D. D. No. 17, Mississippi Co., building 4 mi. ditch, 75 ft. bottom, 1 mi. ditch 40 ft. bottom, 12 mi. levee, 8 ft. crown and three 1 side slopes from 8-11 ft. high, involving 1,800,000 yd. floating dredgework. Pride & Fairley, Blytheville, engrs.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**N. Y., Albany**—Barge Canal Works—W. W. Wotherspoon, supt. pub. wks., Capitol, let contract protecting shore of Erie Basin between Lake St. and Slip No. 1, Buffalo, Cont. 69, involving 150 cu.yd. excav., 300 cu.yd. cinder backfill, 900 lb. structural steel, 60 cu.yd. 1st class rip rap, 19,000 ft. b.m. sawed lumber, 11,000 cu. yd. 2nd class concrete, 100 cu.yd. stone filling in cribs, etc., to R. C. Bush, Tonawanda, $5866; installing electric wiring, lighting, power and battery charging equipment for canal terminal at Erie Basin, Buffalo, Contr. 107, to J. Livingston & Co., 70 East 45th St., New York City, $28,239. Noted Jan. 23.

★**N. Y., Albany**—Barge Canal Work—W. Wotherspoon, supt. pub. wks., let contract (1) building pile dolphins for aids to navigation on Cayuga and Seneca Lakes, Contr. Q; (2) driving steel sheet piling, placing concrete lining and incidental work between Rochester and Lockport, Contr. 200, involving 5300 cu.yd. excav., 22,000 b. m. sheeting and bracing, 770 cu.yd. forming embankment, furnishing 2300 sq.ft. ¼ in. steel sheet piling, 77,000 sq.ft. ¼ in. steel sheet piling, 2900 cu.yd. 2nd class concrete, 500 cu.yd. wash wall, 460 lb. structural steel, 1040 lb. metal reinforcement, removing 730 cu.yd. concrete, coffer dams, pumping, draining, etc.; (3) providing for completion of concrete lining at Carterville and building stream entrance near Knapps bridge, Contr. 201 to W. F. Martens, 245 Cutler Bldg., Rochester, (1) $5092; Lupfter & Remick, Ellicott Sq., Buffalo, (2) $15,248; Ludington & Sons, Inc., Powers Bldg., Rochester, (3) $42,824. Noted Jan. 23.

★**N. Y., Albany**—Freight Shed—W. W. Wotherspoon, supt. pub. wks. let contract building Barge Canal Terminal freight shed at Greenpoint, Brooklyn, N. Y., Contr. 223, to Post & McCord, 101 Park Ave., New York City, $75,719. Work involves 594,500 lb. structural steel, 450 ft. 8 in. 300 sq.ft. 6 in. and 2100 ft. 4 in. terra cotta tile, 610 sq.ft. wood flooring, 6048 sq.ft. warehouse doors, 9800 sq.ft. corrugated metal siding, 4900 sq. ft. flashing, 21,900 sq.ft. roof covering, 810 lin.ft. gutters, 240 lin.ft. corrugated conductors, 250 lin.ft. 4 in. pipe conductors, etc. Noted Jan. 23.

Excavation and Dredging (Continued)

★**Miss., Tunica** — Excavation — Comrs. Prichard D. D., Tunica Co., let contract for 540,000 yd. floating dredge work and 25,000 cu.yd. earth embankment, to Kohler Constr. Co., Minneapolis, Minn., $0.13½ per cu.yd. Noted Feb. 6.

O., Cleveland—Excavation—See "Streets and Roads."

Ia., Logan—Drainage—Comrs. Harrison Co. (Logan) and Monona Co. (Onawa) received bids Feb. 18, building Upper Willow D. D. No. 2, Sects. 1 to 9, main ditch involving 504,680 cu.yd. excav. and 8 lateral ditches involving 16,106 cu.yd. excav. from Calahan Walker Co., Omaha, Neb., entire job, $0.1132 per cu.yd., S. O. Briggs Co., 925 City Natl. Bank Bldg., Omaha, Neb., main ditch, $0.1173 per cu.yd., laterals, $0.30 per cu.yd., M. E. Mills, Omaha, Neb., main ditch, $0.1249 per cu.yd., laterals, $0.18 per cu.yd. Noted Feb. 6.

★**Minn., Ada**—Ditch—Comrs. Norman Co. (Moorhead) and Clay Co. (Ada) let contract building Judicial Ditch No. 56 to Strom, Deggernes & Hanson, Gary, $.0983 per cu. yd. excav. and $275 per lin.mi. leveling. Work involves main ditch and 3 laterals and includes 914,619 cu.yd. excav., 27 mi. road leveling and 32 bridges.

★**Kan., Wichita** — Excavation — See "Streets and Roads."

★**Ark., Lonoke** — Excavation — Bayou Metropolitan D. D. No. 1, Lonoke Co., let contract dredging in old Bayou channel, with laterals draining into bayou and clearing right-of-way; old channel to be enlarged to 50 ft. base, laterals 6-16 ft. base, to O. Kochtitzky, Cape Girardeau, Mo., cost $.10½ cu.yd. for bayou work, $.30 cu.yd. team work and laterals and $27 an acre for clearing. Noted Feb. 20.

★**Idaho, Boise**—Irrigation—Idaho Farm Development Co. signed contract with State Land Bd. to irrigate 8000 acres land in Twin Falls Co. Project includes storage reservoirs and canals from Cedar Creek. W. N. Gibb, Boise, engr.

★**Cal., El Centro**—Irrigation—Dirs. Imperial Irrigation Dist., Masonic Temple, let contract to W. Ledbetter, Pacific Electric Bldg., Los Angeles, building headgate at Sharps Heading, $86,000; at Ash heading, $20,600. Noted Jan. 9.

Industrial Works

PROPOSED WORK

Mass., Lowell—Standard Oil Co., 50 Congress St., plans to build garage and office on Main and Canada Sts. About $80,000.

Mass., Worcester—E. T. Chapin, archt., 340 Main St., soon receives bids building 2 story, 64 x 111 ft. brick garage on Main St., for A. S. Hanson, 873 Main St. About $38,000. Former bids rejected. Noted Feb. 6.

Mass., Worcester—B. Press., 1 Granite St., having plans prepared by E. T. Chapin, archt., 340 Main St., building 1 story, 50 x 90 ft. brick and rein.-con. garage, rein.-con. flooring and concrete foundation on Vernon St. About $25,000.

Conn., Bridgeport—Greenbaum & Kovags, 893 Hancock Ave., having plans prepared by F. A. Cooper, archt., 1024 Main St., building 1 story, 50 x 141 ft. brick and steel garage, rein.-con. flooring and concrete foundation corner Fairfield Ave. and Whittier St. About $30,000. Address S. Greenbaum, 893 Hancock St.

Conn., Stamford—Stamford Extract Mfg. Co., Cove Rd., plans to rebuild manufacturing plant recently destroyed by fire with loss of about $900,000.

N. Y., Brooklyn—Belgian Fur Dyeing Co., 321 Manhattan Ave., receiving preliminary estimates for 3 story, 68 x 98 ft., steel and brick factory, rein.-con. flooring, concrete foundation, at 566 Johnson Ave. About $35,000. E. Purim, pres. B. Dorfman, 26 Court St., archt.

N. Y., New York—W. F. Connell, 1001 Intervale Ave., receives bids in 2 or 3 weeks for 2 story, 70 x 100 ft., steel and brick garage, rein.-con. flooring, concrete foundation, on Intervale Ave. and 163rd. St., Bronx Boro. About $30,000. J. J. Dunnigan, 391 East 149th St., archt.

N. Y., New York—Eagle Pencil Co., 703 East 13th St., having plans prepared by Buchman & Kahn, archts., 56 West 45th St., for 6-story, 75 x 200 ft., rein.-con. addition, rein.-con. flooring, concrete foundation on Avenue D, between 13th and 14th Sts.

N. Y., New York—W. H. Hussey & Son, 150 West 35th St., soon receives bids building 4 story, 42 x 98 ft., brick and steel warehouse, rein.-con. flooring, concrete foundation, at 233-235 West 35th St. About $75,000. G. Keyster, 56 West 45th St., archt. Noted Feb. 6.

N. Y., New York—B. W. Levitan, archt., 7 West 45th St., receives bids about Feb. 28, building 2 story, 100 x 171 ft., steel and brick garage, rein.-con. flooring, concrete foundation, on Lenox Ave. between 110th and 111th Sts. for Swartout Realty Co., 26 West 31st St. About $200,000. New York West Side Garage Corp., care of Ames & Co., 26 West 31st St., lessee.

N. Y., New York—**F. A.** Munsey, 280 Bway., plans to alter interior and build addition to printing plant. About $50,000. Starrett & Van Vleck, 8 West 40th St., archts.

N. Y., New York—Pictorial Review Co., 222 West 39th St., having plans prepared building 12 story, 107 x 147 ft., brick and steel printing plant, on 7th Ave. and 39th St. About $1,000,000. Renwick, Aspinwall & Tucker, 8 West 40th St., archts. Noted Feb. 13.

N. Y., Syracuse—Onondaga Milk Producers Co-Operative Assn. plans to build concrete and steel milk condensary. About $150,000 available for project. Address C. L. Amos, 1204 James St., dir.

N. Y., Syracuse—Overland Syracuse Co., East Genesee St., plans to build 3 story, 96 x 100 ft., brick service station to replace present building on Grape St.; also build 3rd story to existing building on East Genessee St.

N. J., Washington—H. Christine, mayor, O Menkel and associates, will soon receive bids building 2 story, 48 x 140 ft. brick hosiery mill. About $100,000. Noted Feb. 20.

Pa., Chester—H. P. Bartow, 612 Newmarket St., having plans prepared for 3 story, 20 x 100 ft. printing house.

Pa., Phila.—J. E. Sjohsom, Inc., 1715 North 10th St., plans to build 3 story, 68 x 102 ft. brick factory. About $50,000.

Pa., Temple—Temple Malleable Iron & Steel Co. having plans prepared by F. D. Chase, Inc., engrs., 120 South Michigan Ave., Chicago, for rebuilding plant damaged by fire.

Pa., Yorkhaven—Yorkhaven Water & Power Co., engaged Gannett, Seelye & Fleming, engrs., 204 Locust St., Harrisburg, to make complete study and report on improvements and enlargement of 20,000 h.p. hydro electric plant.

N. C., Winston Salem—Hanes Rubber Co. plans to extend plant here, including construction of warehouses and 40 cottages. Lockwood, Greene & Co., Healy Bldg., Atlanta, Ga., engrs.

Tenn., Kingsport—R. Y. Grant and J. H. Lang have acquired the Kingsport Tannery and plan to alter same, also build 3 story, 100 x 400 ft. addition, to include currying shops.

Ky., Lexington—Burley Tobacco Co. plans to build 160 x 800 ft. warehouse here. About $100,000. C. Lebus, pres.

O., Dayton—Custer Specialty Co., 2628 North Ludlow St., having plans prepared by R. E. Gebhart, archt., 73 Calahan Bank Bldg., building 3 story, 60 x 80 ft. factory on Franklin St.

Mich., Detroit—Holley Carburetor Co., 145 East Willis Ave., having plans prepared by A. Kahn, Marquette Bldg., for 1 and 2 story, 60 x 224½ ft. and 40 x 94½ ft. brick and rein.-con. factory, rein.-con. flooring, concrete foundation, on Epworth Blvd. and Vancouver St.

Mich., Detroit—J. G. Kastler, archt., 523 Chamber Commerce Bldg., soon lets contract building 2 story, 50 x 180 ft. brick, concrete and steel garage, rein. con. flooring and concrete foundation on Chene St. and East Grand Blvd. Owner's name withheld. Noted Feb. 13.

Mich., Detroit—J. G. Kastler, archt., Chamber Commerce Bldg., preparing plans for 2 story, 40 x 100 ft. brick and rein. con. bakery, concrete foundation, on Chopin and McGraw Aves. Owner's name withheld.

Mich., Grand Rapids—C. A. Connor Ice Cream Co., Owosso, plans to build plant here. About $150,000.

Mich., River Rouge—Ford Motor Co., Highland Park, soon receives bids building 2 story, 40 x 80 ft. steel substation and transformer house here, also 70 x 300 ft. pig casting machine shop. Brick and concrete work to be done by day labor.

Ill., Blue Island—American Wire Fabrics Co., 208 South La Salle St., Chicago, purchased site near here and plans to build large plant. About $1,000,000.

Wis., Atkinson—Better Sox Knitting Mills Co. plans to build 1 story, 20 x 50 and 25 x 30 ft. addition to factory. D. S. Becker, mgr.

Wis., Manitowoc—Dixie Motor Co., having plans prepared by Juul & Smith, archts., 801 North 8th St., Sheboygan, building 2 story, 75 x 180 ft., rein.-con. and brick garage on North 8th St. here.

Wis., Racine—E. C. Tecktonium Mfg. Co., 1224 13th St., having plans prepared by D. R. Davis, archt., 526 Wisconsin St., building 2 story, 100 x 160 ft. addition to factory with 50 x 80 ft. wing, rein. con., brick and steel.

Wis., Superior—J. O. Bach, archt., Superior, soon receives bids building garage for D. S. Webb, 1607 21st St. About $35,000.

Ia., Davenport—Standard Oil Co., 715 Federal St., soon receives bids building oil filling station on 4th and Warren Sts. A. Flanigan, asst. mgr.

Ia., Storm Lake—G. Coulson and O. B. Kelly plan to build 1 story, 50 x 100 ft. brick warehouse, Erie and Railroad Sts.

Minn., Mankato—Eckman Bros. having plans prepared by H. C. Geriach, archt., Mankato, building 2 story, 30 x 50 ft. garage, 17 x 40 ft. office, 10 x 15 ft. stockroom and 50 x 88 ft. workshop.

Minn., St. Cloud—Standard Oil Co., 4th and Oak Sts., Minneapolis, soon lets contract building 1 story, 40 x 150 ft. filling station 1 story, 40 x 80 ft. barn and 2 story, 30 x 118 ft. warehouse here. About $100,000.

Kan., Wichita—O. S. Shirk, 805 Schweiter Bldg., plans to build 4 story brick warehouse on old Vilm Mill site, at Waco and Douglas Aves. About $40,000.

Mont., Great Falls—State Bd. Examiners, Helena, plans to sell $250,000 bonds Mar. 15, to build terminal elevator here.

Mo., St. Louis—A. B. Groves, archt., Room 501, Merchants Exch. Bldg., soon receives bids for 1 story, 120 x 260 ft. rein.-con. addition to factory, for Bemis Bag Co., 601 South 4th St. About $100,000.

Mo., St. Louis—Missouri Farmers Assn., care of A. Dunlap, representative, Gallatin, plans to build flour mill here. About $350,000.

Mo., St. Louis—St. Louis Wire & Iron Co., 926 Chouteau Ave., plans to build 2 story, 50 x 150 ft., brick and concrete factory, concrete foundation, at 930 Chouteau Ave. About $30,000.

Tex., Abilene—Gulf Well Machry. Mfg. Co. plans to build factory here, also make other improvements. About $250,000.

Tex., Waco—Geyser Ice Co. plans to build cold storage plant here. About $100,000.

Colo., Brighton—Natl. Beet Harvester Co. plans to build factory and foundry here. About $30,000.

Colo., Colorado Springs—City plans election in April to vote on $75,000 bond issue to build heating plant, garage and central fire station.

Utah, Salt Lake City—J. G. McDonald, 159 West Bway., receives bids about Apr. 1, building 6 story, 55 x 145 ft., rein.-con. addition to factory. About $100,000. Headlund & Kent, Dooly Bldg., archts. Noted Dec. 12.

Wash., Spokane—Albers Milling Co. plans to build flour mill here. About $150,000. Address L. Palmerton, 1101 Nora St.

Wash., Wenatchee—Cashmere Apple Co. had plans prepared by H. M. Braggin, archt., for 3 story, 90 x 107 ft. warehouse on Wenatchee Ave. and Spokane St.

Cal., Los Angeles—French-Amer. Shipbuilding Corp., 418-19 Marsh Strong Bldg., recently incorporated with $2,000,000 capital stock, leased site in San Pedro Dist., and plans to build shipbuilding plant. About $100,000 will be expended. W. E. Russell, Haas Bldg., pres.

Industrial Works (Continued)

Cal., Modesto—McHenry Canning Co. plans to build fig packing plant at McHenry Sta., north of here. About $50,000.

Cal., San Jose—Producers Warehouse Co. plans to build addition to warehouse. About $200,000.

Que., Grand Mere—Laurentide Co., Ltd., McGibbon and 3rd Ave., plans to build paper mill. About $400,000. S. Cahoon, Grand Mere, engr.

Que., Montreal—Montreal Tramways Co., 78 West Craig St., had plans prepared for substation on Cute St., cost, $400,000; also for car barns on Fullum and Mt. Royal Sts., $110,000. B. Vernon, Royal Trust Bldg., archt. W. Graves, Tramways Bldg., ch. engr.

Que., Quebec—Valcartier Lumber & Pulp Co., Ltd., receives bids in March for pulp mill. About $350,000.

Que., Sherbrooke—Canadian Connecticut Cotton Mills, Ltd., Drummond Rd., soon lets contract building addition to plant. About $100,000.

Ont., Collingswood—W. J. Holden purchased site here and plans to build planing mill and sash and door factory. About $40,000.

Ont., Coniston—Mond Nickel Co. plans to build 3 new furnaces. C. V. Corloss, mgr.

Ont., Hamilton—Dominion Fdry. & Steel Co., Ottawa St., soon lets contract building plate mill to have capacity of 12,000 tons per month.

Ont., Ottawa—Dominion Government, Dept. Rys. and Canals, receives bids in spring building shops and roundhouse at Overbrook. W. A. Bowden, Ottawa, engr.

Ont., Parry Sound—Town plans to build electric-light plant. About $125,000. J. D. Broughton, clk.

Ont., Strathroy—Dominion Canners receive bids about Mar. 1 building 2 story brick warehouse. About $60,000. Noted Jan. 9.

B. C., New Westminister—City plans to build cold storage plant on new city market site. A. W. Gray, mayor.

B. C., Port Moody—Moody Rolling Mills, Ltd., Pacific Bldg., Vancouver, plans to build steel rolling mill here.

B. C., Victoria—Harbour & Morne Co., care of C. J. V. Spratt, pres. Victoria Machinery Depot, Ltd., Victoria, receives bids in about week building shipbuilding plant to include mould loft, mill, plate shop, blacksmith shop, building ways and offices.

BIDS DESIRED

Ill., Chicago—Mundie & Jensen, archts., 39 South La Salle St., is receiving bids for 1-story, 133 x 520 ft., brick factory, brick foundation, on 47th and Whipple Sts., for J. S., H. C. and H. Phipps, 787 5th Ave., New York City. About $225,000. Marshall, Field Co., 22 East Washington St., lessee.

Minn., Hibbing—Until Mar. 10, by C. Foster, engr., care of Hibbing Power & Light Co. building 3 story, 104 x 158 ft. power house, rein. con., brick and steel, rein. con. flooring, concrete foundation on Main St. About $150,000. Holstead & Sullivan, Palladia Bldg., Duluth, archts. Noted Feb. 20.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Mass., Chelsea** (Boston P. O.)—Griffin Wheel Co., 42 Gerrish Ave., let contract building 1 story brick, steel and concrete foundry, machine shop, core room, cleaning room, etc., rein. con. flooring and concrete foundation, to F. F. Jonesberg Co., 294 Washington St., Boston. About $300,000. Noted Feb. 6.

★**Mass., Worcester**—M. Barski, 21 Green St., let contract building 1 story, 134 x 200 ft., brick and concrete garage, rein.-con. flooring, concrete foundation on Green St., to Federal Eng. Co., 518 Main St. About $50,000. Noted May 23, 1918.

★**N. Y., New York**—Practical Garage Co., 822 Undercliff Ave., Edgewater, N. J., will build 1 story, 50 x 99 ft. brick and steel garage, rein.-con. flooring and concrete foundation, on 144th St. near Lenox Ave., here. About $25,000. Work will be done by day labor.

★**N. Y., New York**—Standard Oil Co., 26 Bway., let contract building 2 story, 72 x 100 ft., rein.-con. and steel stable, rein.-con. flooring, concrete foundation, on 120th St. and Pleasant Ave., to H. D. Best Co., Flatiron Bldg. About $25,000; cost plus percentage.

★**N. J., Kearney** (Arlington P. O.)—Pure Oil Co., 423 Passaic Ave., East Newark, let contract building 1 story, 37 x 120 ft., brick warehouse and office, to Salmond Bros., 526 Elm St., Arlington. About $27,000.

★**N. J., Newark**—Coco-Cola Bottling Co., 173 Ogden St., let contract building 3 story, 39 x 56 ft., rein.-con. and brick addition, rein.-con. flooring, on Ogden and 4th Sts., to Butler Co., 18 West 34th St., New York City, about $25,000.

★**Pa., Phila.**—Clark & Craighead, 1736 North Broad St., plans to build 2 story, 100 x 200 ft. garage, stores and office by day labor. About $150,000. Noted Feb. 6.

★**Md., St. Helena** (Baltimore P. O.)—Raymond Concrete Pile Co., 922 Munsey Bldg., Baltimore, will build 1 story, rein.-con., steel and brick ship repairing and concrete pile casting plant, rein.-con. flooring, concrete foundation on Colgate Creek. About $100,000. Work will be done by day labor.

Mich., River Rouge—See "Industrial Work," proposed work.

★**Mich., River Rouge**—Ford Motor Co., Highland Park, let contract furnishing and erecting steel work for two 1 story, 50 x 300 ft. cast houses at blast furnace here and building high line trestle and bridge girders in connection with coal and ore storage pocket (comprising about 800 tons of steel), to McClintic-Marshall Co., Oliver Bldg., Pittsburgh, Pa.; also building 2 steel storage tanks, 300,000 gal. capacity each, and towers, to Pittsburgh-Des Moines Steel Co., 801 Curry Bldg., Pittsburgh, Pa.

★**Ore., Bay City**—Miami Lumber Co. will build addition to saw mill to increase capacity to 175,000 ft. daily. Plans include filling, dredging, building loading docks, etc. Work will be done by day labor.

★**Cal., Fresno**—Madray Planing Mill Co., Kern and H Sts., will build 1 story, 150 x 280 ft. rein.-con. planing mill on Santa Clara and H Sts. Work will be done by day labor. About $200,000. Noted Sept. 12.

★**Cal., Fresno**—San Joaquin Light & Power Co., H and Tulare Sts., will build 20,000 hp., rein. con. hydroelectric plant on San Joaquin River near Macy Flat, cost, $1,750,000, diversion dam 70 ft. high, 100 ft. long at base and 450 ft. long at top 2 mi. from present power house, 2 mi. tunnels and 2½ mi. concrete lined conduits to carry 600 second feet of water from dam to plant, 3 tunnels, largest 9000 ft. long, cut through solid rock; rock taken from tunnels will be used to build dam, penstock 800 ft. long, 1 short high tension transmission line, install equipment, etc.; also build roads to proposed power plant on Kings River where 20,000 hp plant will be built on Dinkey Creek; 1 plant will be built each year on Kings River, ultimate plans calling for development of about 200,000-260,000 hp., cost to exceed $55,000,000. Work will be done by day labor. Noted Feb. 20.

★**Ont., Hamilton**—Hamilton-Toronto Sewer Pipe Co., Wentworth St., N. let contract building addition to factory, to Canadian Eng. & Contg. Co., Bank of Hamilton Bldg. About $25,000.

★**B. C., Victoria**—Hutchinson Bros. & Co., Ltd., 409 Bay St., let contract building foundry, to Cameron Investment & Securities Co., Ltd., Central Bldg. About $100,000. Noted Jan. 26.

Buildings

PROPOSED WORK

Mass., Cambridge (Boston P. O.)—Hotel—H. Harlow, archt., 101 Tremont St., Boston, receives bids in March, building 4 story, brick, steel and concrete apartment hotel, rein.-con. flooring, concrete foundation, for F. S. Harlow, c/o archt. About $100,000.

Mass., Dorchester (Boston P. O.)—Market—Upham Market Co. had plans prepared by W. Bacon, archt., 27 Kilby St., Boston, for 2 story, 84 x 117 ft. rein.-con. on Ramsey St. here. About $100,000.

Mass., Holyoke—School—Bd. Educ. had plans prepared by G. P. B. Alderman & Co., archts., 437 High St., building 2 story, brick, steel and rein.-con., rein.-con. flooring and concrete foundation. About $275,000.

Mass., Lowell—Office—See "Industrial Works."

Mass., Worcester—High School—Bd. Educ. plans to build addition to high school on Irving St. to contain gymnasium, administration rooms, etc.

Conn., Hartford—Market—City having plans prepared by Whiton & McMahon, archts., 36 Pearl St., building public market on Connecticut Blvd. About $100,000. R. J. Kinsella, mayor and chn. comn.

Conn., Middletown—Armory—State Legislature, Hartford, petitioned to appropriate $250,000 to build state armory here.

Conn., New Haven—Hospital—Grace Hospital Assn., 1418 Chapel St., receives bids about May 1, for 5 story, 100 x 140 ft. brick, steel and rein.-con., rein.-con. flooring and concrete foundation on Orchard St. About $250,000. C. S. Palmer, 191 Church St., archt.

Conn., New Haven—Bank—Pallotti, Andretta Co., 630 Chapel St., soon receives bids building 3 story, 76 x 90 ft. brick, steel and concrete bank building, rein.-con. flooring and concrete foundation on corner Olive and Chapel Sts. About $100,000. D. Guerriero, 630 Chapel St., archt.

Conp., Norwalk—Hotel—Norwalk Realty & Imprvt. Co., care of M. N. Maychoff, 31 West Ave., having plans prepared by G. F. Shepard, archt., 14 Kilby St., Boston, building brick and steel, concrete foundation, on Wall St. About $100,000.

Conn., Waterbury—Hospital—Bd. Health receives bids in March building 2 story, brick, steel and rein.-con. Isolation Hospital, rein.-con. flooring, concrete foundation, on Watertown Ave. Cost, including equipment, $200,000. Cross & Cross, 681 5th Ave., New York City, archts. Noted Jan. 23.

Conn., Waterbury—Hospital—St. Mary's Hospital, Franklin St., plans to build 2 story addition on Cole St.

N. Y., Albany—Office—State Legislature, Capitol, petitioned to acquire site and build senate and assembly office.

N. Y., Cortland—School—State Educational Dept., Capitol, Albany, petitioned to adopt site on Court House Hill and build new normal school here.

N. Y., Lake Placid—Hotel—Bowman Hotel Co., 405 Lexington Ave., New York City, plans to build 10 story, on Grand View Hill. About $300,000.

N. Y., Little Falls—Bank—Little Falls Natl. Bank, 1 West Main St., plans to build 1 story, on Main and Ann Sts. About $100,000.

N. Y., Manlius—Barracks—St. John School having plans prepared by J. M. Scrafford, archt., building additional barracks, cost $100,000. W. Verbeck, pres. War. Dept., Wash., D. C., will furnish equipment to extend schools; curriculum to include artillery and cavalry; cost, $250,000.

N. J., Newark—Club—Newark Athletic Club, Ordway Bldg., had tentative plans prepared building 10 story, 100 x 125 ft. concrete, steel and brick, rein.-con., concrete foundation. About $600,000.

N. Y., New York—Office—H. Jaeckel & Sons, 16 West 32nd St., soon lets contract building 6 story, 25 x 155 ft. brick and steel addition, concrete foundation, at 546 5th Ave. About $75,000. Starrett & Van Vleck, 8 West 40th St., archts.

N. Y., Rochester—Music Hall—G. Eastman, plans to build 3 story, 186 x 227 ft., on Gibbs St. between Barrett Alley and Main St.

N. Y., Syracuse—Bank—Syracuse Trust Co., 328 South Warren St., plans to expend between $50,000 and $100,000 for converting present buildings at 509-511 North Salina St. into bank, also build new quarters in South Gennes St.

N. Y., Syracuse—Home—Onondaga Co. Orphan Home plans to build 10 frame or frame and brick cottages, installing heating and drainage systems, etc. B. J. Hotaling, supt.

N. Y., Utica—Theater—W. H. Linton, 40 Hancock St., Little Falls, having plans prepared by M. H. Hubbard, archt., 212 Paul Bldg., for 1 story, 70 x 104 ft., brick, concrete foundation, on Lafayette St. About $55,000.

N. Y., Utica—Theater—Wilmer & Vincent, 1451 Bway., New York City, having plans prepared by E. C. Horn & Sons, archts., 1476 Bway., New York City, altering existing building and constructing 3 story, 75 x 100 ft. addition to same, on Bleecher St. About $100,000.

N. J., Jersey City—Asylum—Bd. Freeholders, Hudson Co., having plans prepared by E. Rowland, archt., 100 Sip Ave., for new Insane Asylum. About $200,000.

Buildings (Continued)

N. J., Weehawken — Office — Township Com. plans to build new municipal building. About $150,000.

Pa., Allentown—Theater and Office—Wilmer & Vincent Theater Co., 33 West 42nd St., New York City, having plans prepared by Hoffman Co., archts., Finance Bldg., Phila., for 7 story, concrete, steel and brick, rein.-con. floor, concrete foundation, here.

Pa., Phila. — Theater — Palm Theater, Kensington Ave. and Norris St., plans to alter theater and build new rein.-con. balcony. About $50,000. R. Beard, Commonwealth Bldg., archt.

Pa., Pittsburgh—Offices and Store—McCann & Co., Market St., plans to build 8 story, on Market and Diamond Sts. About $200,000.

Md., Baltimore—Clinic—Johns Hopkins University received anonymous gift of about $400,000 to build 3 story, brick and steel woman's clinic as an adjunct to hospital on North Bway. Archer & Allen, Central Savings Bank Bldg., archts.

Md., Baltimore — School — City Council contemplates purchasing site at Fayette and Aisquith Sts. to build school; also establishing park adjoining school. Total cost, $250,000.

Md., Chestertown — Bank, etc. — Third Natl. Bank purchased site on High and Cross Sts., and plans to build 85 x 100 ft., steel, brick and concrete bank, office and store building, stone and concrete foundation. About $75,000. Address A. L. Sparks, Chestertown.

Md., Texas—Almshouse—Comrs. Baltimore Co., Towson, having plans prepared by W. H. Emory, Jr., archt., 827 Munsey Bldg., Baltimore, for concrete, steel and brick. Cost between $75,000 and $100,000. Noted Jan. 16.

N. C., Winston Salem—Cottages—See "Industrial Works."

S. C., Charleston—Citadel—State Assembly authorized building of "Citadel" (State Military School), on 43 acre site on Hampton Park, donated by city. First unit to cost $100,000; total cost, $500,000.

S. C., Charleston—School—A. B. Rhitt, supt. schools, having plans prepared building 16 room, brick grade school on King and Moultrie Sts.

Ga., LaGrange—Community House—International Cotton Mills plans to build 1 story community house, to include swimming pool and gymnasium. About $65,000. Lockwood, Greene & Co., Healy Blk., Atlanta, engrs.

Ala., Albany—High School—Bd. Educ. plans to build high school. About $150,000.

Ala., Birmingham—Schools—City plans to issue $3,000,000 bonds. Part proceeds will be used for rebuilding Central High school, also building high school in eastern end of city. J. Kendrick, city engr.

Tenn., Memphis—Auditorium and Market—City plans to issue $375,000 bonds to build auditorium and market house. H. H. Hull, city engr.

Tenn., Memphis—Hospital—State Legislature, Nashville, petitioned to appropriate $300,000 to build tuberculosis hospital here.

Tenn., Morristown—Memorial—Bd. Trade plans to build memorial building. About $75,000.

Tenn., Nashville—Market—E. M. Gardner, archt., Nashville, submitted plans to Market House Assn. for new market house. Cost between $150,000 and $300,000.

O., Cleveland—Fire Stations—City having plans prepared by F. H. Betz, archt. 604 City Hall Bldg., for 3 two-story, brick, steel and rein.-con. fire stations, rein.-con. flooring, one on East 187th St. and Nottingham Rd. to cost $75,000; one on West 65th St. and Denison Ave. and one one East 131st St. and Corlett Ave., to cost $60,000 each.

O., Cleveland—Office—East 9th St. Euclid Co., c/o C. H. Beardslee, East 9th and Euclid Ave., plans to remodel 8 story, 70 x 163 ft. building at above address into office. About $100,000.

O., Cleveland—Police Station—City having plans prepared by F. H. Betz, archt., 604 City Hall Bldg., for 2 story, brick, steel and rein-con., rein.-con flooring, on West 100th St. and Denison Ave., also one on East 131st St. and Corlett Ave. About $75,000 each. Noted Mar. 7.

O., Cleveland—Theater—Rialto Amusement Co., c/o P. E. Essick, Stork Theater, West 25th St. and Lorain Ave., plans to build 2 story, 70 x 175 ft., concrete, brick and steel moving picture theater, rein.-con. flooring, concrete foundation. About $150.-000.

O., Dayton—Business—Consolidated Automobile Co., 222 West 3rd St., plans to build 4 and 5 story, rein.-con. business block. About $300,000.

O., Dayton—L. F. Schwind Realty Co., Schwind Bldg., 25-27 Ludlow St., having plans prepared by Schenck & Williams, archts., Mutual Home Bldg., building 100 x 120 ft. rein.-con. theater, rein.-con. flooring, on 1st and Main Sts.

Ind., Decatur—Bank—Old Adams County Bank having plans prepared by C. R. Weatherhogg, archt., Hamilton Bank Bldg., Ft. Wayne, building here. About $65,000.

Ind., Elkhart—School—Bd. Educ. plans election to vote on $120,000 bonds to build new school.

Ind., Muncie — Store — Stillman Dept. Store, 305-7 South Walnut St., plans to rebuild 4-story structure recently destroyed by fire.

Mich., Detroit—Mercantile—Heyn's Bazaar, 147 Woodward Ave., having plans prepared by A. Kahn, archt., Marquette Bldg., for 8 story, 40 x 100 ft., brick, steel and rein.-con., rein.-con. flooring and concrete foundation, on Woodward Ave. E. Heyn, pres.

Mich., Detroit—Mercantile—E. Kern Co., Woodward and Gratiot Aves., having preliminary plans prepared by Smith, Hinchman & Grylls, archts., 710 Washington Arcade, for 8 story, 94 x 100 ft. brick, steel and concrete, rein.-con. flooring.

Mich., Detroit—Mercantile and Office—Book Estate, having preliminary plans prepared for 5 story, 60 x 100 ft., on Washington Blvd. and Grand River Ave. 1225 Book Bldg. H. S. Ellington, 1225 Book Bldg., engr.

Mich., East Lansing — Library — State Legislature Lansing, petitioned to appropriate $300,000 to build library at Michigan Agricultural College, here.

Mich., Flint—School—Bd. Educ. having plans prepared by Malcolmson & Higginbotham, archts., 404 Moffat Bldg., Detroit, for 2 story, brick and concrete grade school for Union School Dist. About $200,000.

Mich., Lansing—Office—Bd. State Aud., Lansing, soon receives bids building here. About $1,000,000. Noted Dec. 12.

Mich., Wyandotte — High School, etc. — City plans election to vote on $500,000 bonds to build high and elementary schools.

Ill., Chicago — Hospital — Passevant Memorial Hospital, 149 West Superior St., plans to build. About $1,000,000.

Ill., Chicago—Hotel—J. Vogelsang, 177 West Madison St., receives bids in summer building 17 story, 85 x 189 ft. hotel and restaurant, on Madison St. near Wells St. About $1,000,000. Holabird & Roche, 104 South Michigan Ave., archts.

Ill., Chicago—Theater—H. L. Newhouse, archt., 4630 Prairie Ave., soon lets contract building 1 story, 155 x 200 ft. brick and concrete moving picture theater, concrete foundation, on 92nd and Commercial Aves., for Ascher Bros., 220 South State St. About $250,000.

Ill., Gillespie—High School—J. W. Kennedy, archt., Cahokia Bldg., East St. Louis, soon receives bids building 2 story, 140 x 154 ft., brick and rein.-con., rein.-con. flooring, concrete foundation, for Bd. Educ. About $125,000.

Ill., Woodriver—High School—J. W. Kennedy, archt., Cahokia Bldg., East St. Louis, soon receives bids building 2 story, 90 x 150 ft., brick and rein.-con., rein.-con. flooring, concrete foundation, for Bd. Educ. About $90,000.

Wis., Madison—Vocational and High School—Bd. Educ. having plans prepared by F. L. Kroenberg, archt., 18 North Carroll St., building brick addition on Johnson and Carroll Sts. About $200,000.

Wis., Milwaukee — Police Station — City plans to build. About $225,000. W. D. Hayes, City Hall, engr.

Wis., Oshkosh—High School — Citizens petitioned City Council to build addition. About $150,000; $30,000 now available for project. N. G. Remmel, mayor.

Wis., Two Rivers — High School — Bd. Educ. having plans prepared by Van Ryn & De Gelleke, archts., Caswell Blk., Milwaukee, building addition. About $95,000.

Wis., Wales—Infirmary—State Bd. Control having plans prepared by A. Peabody, archt., Capitol, Madison, building 2 story, 40 x 140 ft. here. About $100,000.

Ia., Bloomfield—Memorial—Davis Co. Red Cross plans campaign to build county memorial for soldiers. About $100,000.

Ia., Chariton—Fair—Lucas Co. Agriculture & Live Stock Assn. having plans prepared by W. L. Perkins, archt., building here. About $65,000.

Ia., Council Bluffs—School—Independent School Dist. will hold election Mar. 19, to vote on $100,000 bonds to purchase site and build here. R. H. Williams, secy.

Minn., Duluth—Hall—City plans to build 4 story, rein. con., brick and steel rein. con. flooring, concrete and rock foundation on West 1st St. About $1,000,000. L. A. Ayres, City Hall, engr.

Minn., Faribault—Epileptic Colony—State Bd. Control, State House, St. Paul, plans to build here. About $150,000.

Minn., Virginia — Church — Presbyterian congregation plans to build 2 story, rein. con., brick and steel, rein. con. flooring, concrete and rock foundation. About $85.-000. R. O. Pickering, chn. building com.

N. D., Grand Forks — Theater — J. Kavanaugh having plans prepared by Buechner & Orth, archts., Minneapolis, Minn., building 3 story, brick theater on De Mers Ave. About $100,000.

Mo., Jefferson City—Hospital—St. Mary's Hospital plans to rebuild hospital recently destroyed by fire. About $150,000.

Mo., St. Louis—Terminal—Corporation being formed to build terminal building on riverfront, modelled after Bush Terminal of Long Island. About $5,000,000. E. Gengenbach, Chamber of Commerce, engr.

Tex., De Leon—Hotel—Chamber of Commerce plans to build here. About $150,000.

Tex., Electra—Hotel—D. T. Cross plans to build here. About $70,000.

Tex., Ft. Worth—Office—W. T. Waggoner, 1st Natl. Bank Bldg., receives bids about Mar. 1, building 16 story, 75 x 95 ft. rein.-con. and steel on 8th and Houston Sts. Cost between $750,000 and $1,000,000. Sanguinett & Staats, 1st Natl. Bank Bldg., archts. Noted Jan. 9.

Tex., Paris — Church — First Methodist congregation having plans prepared by Van Slyke & Woodruff, archts., Burk Burnett Bldg., Ft. Worth, building here. About $100,000. Noted Jan. 2.

Okla., Bartlesville—Hospital—City plans election to vote on $150,000 bonds to build hospital here.

Okla., Enid—School—City plans to vote on $100,000 bonds to build grade school and addition to high school.

Okla., McAlester—School—City voted on $250,000 bonds to build high school. With $100,000 available in insurance money on former building $350,000 will be expended for same. W. G. Masterson, supt. educ. Noted Feb. 6.

Colo., Denver—Administration, etc.—City and Denver Co. plans election to vote on $1,500,000 bond issue for building city and county administration building, court house and county hospital.

Colo., Denver—Hotel—Albany Hotel Co., 17th and Stout Sts., plans to rebuild hotel. About $500,000. S. R. Dutton, mgr.

Nev., Winnemucca—Court House—Comrs. Humboldt Co. having plans prepared by F. J. De Longchamps, archt., Nixon Bldg., Reno, building 2 story, rein. con. and stone. About $150,000.

Ariz., Tucson—University—University of Arizona plans to build 12 new buildings and additions to dormitories, dining hall and library. About $425,000.

Wash., Olympia—**Armories**—State Legislature appropriated $325,000 to build new armories at Olympia, Everett and Aberdeen.

Wash., Walla Walla—Bank—First Natl. Bank purchased site and plans to build, 8 or 9 story, on 2nd and Alder Sts. J. H. Pedigo, atty.

Ore., Eugene—University—State Legislature, Salem, petitioned to appropriate $100.-000 toward building women's building at University of Oregon. Cost, $200,000.

Cal., Catalina Island (Avalon P. O.)—Summer and Winter Resort—W. Wrigley, Jr., 5 North Wabash Ave., Chicago, purchased controlling interest in Santa Catalina Island consisting of 48,000 acre site and will expend several millions in constructing hotels, villages, wharves, etc., for summer and winter resort.

Cal., El Centro—**Hospital**—T. O. Luckett, W. L. Lyon, and associates, plan to build here. About $60,000.

Buildings (Continued)

Cal., Glendale—Church and School Group—Holy Family congregation having plans prepared by A. C. Martin, archt., 430 Higgins Bldg., Los Angeles, for group consisting of church, school, parish house, guild hall, etc., large building of brick, other of frame construction, rein. con. flooring, concrete foundation, on Louise St. and Lomita Ave. About $100,000. Noted Feb. 6.

Cal., Los Angeles—Civic Center—F. T. Woodman, mayor, appointed committee to formulate plans for civic center to include city hall, library, police headquarters, etc. About $10,000,000. W. Mulholland, ch. engr. pub. serv. dept., chn.

Cal., Los Angeles—Gymnasium—Bd. Educ., Security Bldg., having plans prepared by W. J. Bliesner, archt., 223 South Flower St., for brick gymnasium, concrete foundation, at Polytechnic High School. About $75,000 available for project.

Cal., Los Angeles—School—Bd. Educ., Security Bldg., having plans prepared by J. C. Austin, archt., 1125 Baker & Detwiler Bldg., for brick or hollow tile school, concrete foundation, on Nevin Ave. About $85,000 available for project.

Cal., Merced—High School—Merced Union High School Dist. having plans prepared by Allison & Allison, archts., 1405 Hibernian Bldg., Los Angeles, for constructing group 1 and 2 story, brick buildings, concrete foundation, consisting of academic administration and assembly building, domestic science, manual training and commerce building, power house and gymnasium. About $130,000 available for project.

N. F., St. John's—Rescue Home—Salvation Army plans to build here. About $50,000. Address A. Burrows, owner.

N. S., Halifax—School—Bd. School Comrs. soon let contract building boys' school. About $150,000. S. J. Wilson, 81 Sackville St., secy. bd.

N. S., Sydney—Church—Church of England plans to build. About $100,000. H. Watson and P. Maxwell, rectors.

N. B., Moncton—Schools—School Bd. plans to build various schools. About $200,000. F. A. McCully, secy.

Que., Montreal—High School—Comr. Schools of Coteau St. Pierre, plans to build two 3 story wings to West Hill High School, concrete and brick, rein. con. flooring. About $180,000. D. J. Spence, 246 Beaver Hall, archt.

Que., Montreal—Office—Burland Estate, 2 Place D'Armes, soon lets contract building 3 story, on Notre Dame St., N. About $100,000. D. J. Spence, 246 Beaver Hall, archt.

Que., Montreal—Office—Canadian Car & Fdry. Co. soon lets contract building 5 story on Craig St., W. About $250,000. D. J. Spence, 246 Beaver Hall, archt.

Ont., Brantford—School—City having plans prepared by W. C. Tilley, archt., Dalhousie St., building here. About $75,000. Noted Jan. 30.

Ont., London—Seminary—St. Peter's Cathedral soon receives bids building stone seminary. About $400,000. Noted Jan. 30.

Ont., London—Theater—J. and J. J. Allen, c/o Allen Theater Co., Richmond St., E., Toronto, plans to build here. About $200,000.

Ont., Ottawa—Institute and Laboratory—Dominion government plans to establish Central Resources Institute here. About $600,000 for buildings and laboratory equipment.

Ont., Renfrew—School—School Bd. plans to build technical school. About $125,000. S. T. Chown, chn.

Sask., Battleford—Asylum—Battleford Asylum plans to build addition. About $155,000.

B. C., Vancouver—Hall—City having plans prepared by R. A. McKenzie, archt., City Hall, for 2 story, 60 x 80 ft., brick and stone addition to City Hall on Main and Pender Sts. About $50,000.

B. C., Victoria—See "Industrial Works."

BIDS DESIRED

N. Y., Bath—Barracks—Until Mar. 25 by J. S. Maxwell, pres. bd. mgrs., New York State Soldiers' & Sailors' Home, building Barracks "H" and "I",2 story, 44 x 151 ft., with rear wing, 44 x 75 ft., rein.-con. brick and steel, rein.-con. flooring, brick foundation, at State Institution. About $100,000. Noted Jan. 30.

La., Baton Rouge—Until Mar. 15, by B. B. Taylor, pres. Y. M. C. A., building 4 story brick building, consisting of gymnasium, swimming pool, etc. About $75,000. Shattuck & Hussey, 19 South La Salle St., Chicago, archts. Noted Feb. 6.

O., West Unity—School—Until Mar. 28, by Bd. Educ. and Howard & Marriam, archts., 8 East Broad St., Columbus, building 2 story, 74 x 134 ft. brick and rein. con. About $125,000. Noted Feb. 20.

Ill., Chicago—Library—Until Mar. 10, by Chicago Pub. Library, building branch library on Crawford Ave. and West Monroe St. H. G. Wilson, secy. Noted June 27.

Colo., Center—School—Until Mar. 3, by Bd. Educ. building 2 story, 60 x 275 ft. brick and concrete, rein.-con. flooring, concrete and brick foundation. About $80,000. Montjoy, French & Frewen, Chamber Commerce Bldg., Denver, archts. Noted Feb. 13.

B. C., Esquimalt—Hospital—Until Mar. 18, by Dept. Pub. Wks. building addition to hospital on military hospital grounds. A. A. Cox, 213 Hastings St., E., engr.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Conn., Bridgeport**—Hotel—Progressive Bldg. Co., 1215 Main St., will build 4-story, 72 x 125 ft., brick and concrete apartment hotel, concrete foundation, on Lafayette and Liberty Sts. Work will be done by day labor. About $150,000.

★**Conn., New Haven**—Hotel—C. W. Ratner, 1476 Chapel St., will build 4 story, 90 x 101 ft., brick, rein.-con. and steel apartment hotel, rein.-con. flooring, concrete foundation, on Chapel St. and Winthrop Ave. Work will be done by day labor. About $90,000.

★**N. Y., Brooklyn**—Riding Academy—Bedford Riding Academy, 13 Ocean Pkway., will build 1 story, 102 x 189 ft., brick and concrete, concrete foundation. About $60,000. Work will be done by day labor.

★**N. Y., Sonyea**—Kitchen—Craig Colony for Epileptics let contract building 1 story, 42 x 114 ft. and 42 x 80 ft., rein.-con., brick and steel, rein.-con. flooring, concrete foundation, to A. E. Stephens Co., 318 Main St., Springfield, Mass., $49,300. Noted Jan. 23.

★**N. Y., Syracuse**—School—Bd. Educ. let contract building 3 story, 100 x 150 ft., steel and brick, concrete foundation, on Madison Ave. and Walnut St., to Schaefer Constr. Co., 5 West 31st St., New York City. About $230,000.

★**N. J., Newark**—Hotel—H. & J. Kruvant, 31 Walnut St. let contract building 5 story, 68 x 150 ft., concrete, steel and brick, concrete foundation, at 24-26 Park St., to H. Kruvant, 189 Bloomfield Ave. About $300,000.

★**Pa., Phila.**—Stores and Office—See "Industrial Works."

★**Pa., Phila.**—Store—L. W. Hirsch Co., 923 Market St., let contract remodeling 5 story, 46 x 200 ft. building adjoining present store into addition for its own use, to Melody & Keating, 1322 Race St. About $195,000. Noted Feb. 6.

★**Mich., Detroit**—Mercantile—Newcomb-Endicott Co., 190-200 Woodward Ave., let masonry contract for 12 story, 60 x 110 ft. steel building on Woodward and Grand River Aves., to Batchelder-Wasmund Co., Jefferson Ave. W.; structural steel, to Russel Wheel & Fdry. Co., Chene St. and Belt Line R.R. Noted Jan. 2.

★**Ia., Washington**—Church—United Presbyterian congregation let contract building 2 story, brick, to Shrader, Worlary & McKeane, Washington. About $50,000.

★**Cal., Cutler**—Bank and Store—Natl. Bank of Cutler let contract building brick and concrete bank and store building, to R. Pedersen & Co., Fresno. About $150,000 (including fixtures).

★**Cal., Los Angeles**—Theater—A. Pantages, Pantages Bldg., will build 8 story, 150 x 150 ft., rein.-con., steel and brick, theater, office and store, 7th and Hill Sts. About $600,000. Work will be done by day labor. Noted Dec. 12.

★**Alta., Ponoka**—Dormitory, etc.—Trustees Provincial Hospital let contract building rein.-con. and brick dormitory and dining hall, to T. Jamieson-McKenzie, Ltd., 107 Travis Bldg., Calgary. About $144,000. Noted Nov. 28.

Federal Government Work

PROPOSED WORK

New York—Congress petitioned to appropriate sum to deepen St. Lawrence River down as far as Ogdensburg and Prescott, instead of providing deep water way to sea.

N. Y., Ft. Lafayette—Dredging—Bureau Yards & Docks, Navy Dept., Wash., D. C., received no bids Feb. 24, dredging here; Spec. 3579. Noted Feb. 20.

N. Y., Long Island City—Post Office—J. A. Wetmore, superv. archt., treas. dept., Wash., D. C., rejected all bids received Jan. 15; same were in excess of the appropriation. Noted Jan. 23.

N. Y., Ithaca—Post Office—U. S. Government, Wash., D. C., had plans prepared for 30 x 68 ft. addition to post offices here. About $115,000.

N. Y., Lowville—Post Office—U. S. Government, Wash., D. C., plans to build here. About $65,000.

N. Y., New York—Harbor Improvements—Rivers & Harbors Comn., Wash., D. C., appropriated $1,475,000 to improve harbors at Olcott, Charlotte, Pultneyville, Great Sodus Bay, Little Sodus Bay, Oswego, Cape Vincent, Ogdensburg and Oswego.

N. Y., Oneida—Post Office—J. A. Wetmore, superv. archt., treas. dept., Wash., D. C., plans to build. About $75,000 available for project.

N. Y., Ward's Island—Electric Conduit and Switchboard—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to install here; Spec. 3819. About $7500.

New Jersey—Deepening Channel—U. S. Senate, Wash., D. C., passed amendment to Rivers and Harbors Bill appropriating $88,000 to deepen channel of Hackensack River to 16 ft. and 300 ft. wide from Newark Bay channel to Jersey Central bridge, about 1 mile.

Pa., Phila.—Pumping Equipment—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to install in Naval Home; Spec. 3816. Bids will be opened at local yard.

D. C., Wash.—Flood Control—U. S. Dept. of Agriculture having surveys made in North Dakota, South Dakota and Minnesota to improve flood control in Red River Valley. P. G. Simons, Moorehead, Minn., engr.

D. C., Wash.—Sewers—Dist. Comrs., Dist. Bldg., rejected all bids received Jan. 14, building sewer involving 140 lin.ft. 7 x 7 ft. and 1065 lin.ft. 6 x 6 ft. concrete sewer; same were in excess of appropriation. Noted Jan. 23.

Va., Hampton Roads—Hangars, Landing Pier, Pavement and Roads—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to build 3 hangars, landing pier, pavement and roads, here; Spec. 3818.

Ind., Ft. Wayne—Post Office—Government plans to appropriate $350,000 to build post office here.

Ind., Terre Haute—Post Office—Government appropriated $225,000 to build post office here.

Ill., Rock Island—Dredging—U. S. Engr. Office, Rock Island, plans to dredge 6 ft. channel 5 mi. long, in Mississippi River between Le Clair and Davenport, Ia. About $250,000 appropriated for project.

Kan., Eldorado—Post Office—J. A. Wetmore, superv. archt., treas. dept., Wash., D. C., rejected all bids received Jan. 16; same were in excess of appropriation. Noted Jan. 23.

Ore., Astoria—Post Office—Congress petitioned to appropriate $500,000 to build new post office here.

Ore., Klamath Falls—Bungalows and Houses—U. S. Congress, Wash., D. C., appropriated $500,000 to build bungalows and houses for Indians on Klamath Indian Reservation. R. H. Bradley, Klamath Falls, in charge of construction.

Cal., Mare Island—Motor and Blading—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to install for turbo-alternators; Spec. 3817. About $7500.

Federal Government Work (Continued)

BIDS DESIRED

R. I., Providence—Remodeling Post Office, etc.—Until Mar. 25, by J. A. Wetmore, superv. archt., treas. dept., Wash., D. C., remodeling post office, court house and custom house.

Pa., Easton—Hoistway, etc.—Until Mar. 14, by J. A. Wetmore, superv. archt., treas. dept., Wash., D. C., installing hoistway, hydraulic mail lift, pump, etc., in post office here; advertised in this issue.

Del., Wilmington—Dredging—Until Mar. 24, by U. S. Eng. Office, Old Federal Bldg., dredging Smyrna River; advertised in this issue.

Md., Annapolis—Building—Until Mar. 17, by Bureau Yards & Docks, Navy Dept., Wash., D. C., building steamship and navigation building; Spec. 3760. About $800,000; $30 deposit required for plans and specifications.

D. C., Wash.—Condensers—Until Mar. 10, by Bureau Yards & Docks, Navy Dept., installing condensers, after coolers and pumps, in various Navy Yards; Spec. 3797. About $388,000.

D. C., Wash.—Paving—Until Mar. 6, by Dist. Comrs., Dist. Bldg., paving various streets with sheet asphalt.

Va., Hampton Roads—Grandstand and Bleachers—Until Mar. 3 (change of date) by Bureau Yards & Docks, Navy Dept., Wash., D. C., building at Naval Operating Base; Spec. 3795. Addendum will be issued to include grading and piers. Noted Feb. 20.

Va., Norfolk—Grandstand and Bleachers—Until Mar. 3, by Bureau Yards & Docks, Navy Dept., Wash., D. C., building at Naval Operating Base; Spec. 3795. Plans include grading and building piers.

Va., Yorktown—Wooden Pier and Approach—Until Mar. 17, by Bureau Yards & Docks, building here; Spec. 3820. About $270,000; $10 deposit required for plans and spec.

La., New Orleans—Earthwork—Until Mar. 1, by U. S. Eng. Office, 519 Canal St., building 2,368,000 cu.yd. earthwork in Lower Tensas, Atchalafaya and Pontchartrain Dists.

Tenn., Memphis—Coal—Until Mar. 31, by Dist. Eng., Mississippi River Dredging Dist., U. S. Dredge Depot, Memphis, furnishing 14,000 tons coal in barges; advertised in this issue.

Alaska, Nome—Dredging, etc.—Until Mar. 15, by U. S. Eng. Office, Seattle, Wash., building bank revetment and jetties and dredging in Nome Harbor; advertised in this issue.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**N. H., Portsmouth**—Piping and Circulating System—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract installing in power house at Navy Yard here, to Carroll Electric Co., 724 12th St., N. W., Wash., D. C., $42,800 (120 days). Noted Feb. 20.

Mass., Chatham—Dredging, etc.—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids Feb. 24, dredging, filling and grading at Naval Air Sta.:

(1) unit price per cubic yard (measured in original position) for dredging and disposing of 100,000 cu.yd. of material in accordance with drawings and specification, including all necessary dikes, spillways, etc., to retain fill.

(2) unit price per cubic yard (measured in original position) for dredging and disposing of material as outlined in Scheme 2 (complete), in accordance with drawing and specification.

(3) unit price per cubic yard (measured in original position) for dredging and disposing of material in excess of 100,000 cu.yd. from

Boston Dredging Co., 172 Conder St., East Boston, (1) $0.96 (120 days); (2) $0.94 (120 days); (3) $0.62.

J. S. Packard Dredging Co., 1004 Turk's Head Bldg., Providence, R. I., (1) $1.24 (120 days) (2) $1.24 (120 days); (3) $0.74. Noted Feb. 6.

N. Y., New York—Piping and Equipment—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids Feb. 24, installing in extension "A" of power plant at Navy Yard, here, from Lord Constr. Co., 105 West 40th St., $42,069 (120 days); W. K. Moran, 405 Lexington Ave., $44,713 (90 days); Gillis & Gehagen, 537 West Bway., $44,675 (120 days). Noted Feb. 6.

N. Y., Rockaway—Addition to Dispensary—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids Feb. 24, building additions to dispensary at Naval Air Sta., from Rangely Constr. Co., 405 Lexington Ave., New York City, $22,444 (120 days); J. C. Jorgensen, 1037 White St., Far Rockaway, $23,468 (90 days); Oscawanna Bldg. Co., 101 Park Ave., New York City, $23,470 (100 days). Noted Feb. 6.

N. Y., Rockaway—Seaplane Hangar—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids Feb. 24, (1) work complete, (2) amount to be deducted from (1) if all sheathing material is furnished to contractor on site of building by government, from Post & McCord, 101 Park Ave., (1) $43,390 (60 days); (2) $3200; Barney Ahlers, 110 West 40th St., (1) $46,200 (60 days); (2) $2500; J. K. Turpin, 101 Park Ave., (1) $49,899 (60 days); (2) $2637. Contractors all of New York City. Noted Feb. 20.

Pa., Phila.—Addition to Shipbuilding Slip—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids building addition to shipbuilding slip No. 283.

(1) net price and time of completion of all work except foundations for extensions to crane runways, complete, in accordance with Bureau Drawings Nos. 79892 to 79897, and 81124, both inclusive, and such portions of this specification as apply to this part of work.

(2) net price and time of completion for crane runway footings, Nos. 2, 30, 31, 32 and 33, complete, in accordance with Bureau Drawings No. 83158, and such portions of this specification as apply to this part of work.

(3) net price and time of completion for crane runway footings Nos. 20, 30 to 36 inclusive and 42 to 44 inclusive, complete, in accordance with Bureau Drawing No. 83158, and such portions of this specification as apply to this part of work.

(4) net price and time of completion for all footings for extension to crane runways complete, in accordance with Bureau Drawing No. 83158, and such portions of this specification as apply to this part of work.

(5) net price and time to be added to, or subtracted from, net price, and time stated under (1) for construction of foundations for passageways of Slips Nos. 2 and 3 on concrete piles instead of timber piles, in accordance with Bureau Drawing No. 83159, and such portions of this specification as apply to this part of work.

(6) net price and time to be added to or deducted from net price and time stated under (1) for construction of foundations for driveway, offices and store-rooms of Slip No. 2, on concrete piles instead of timber piles, in accordance with Bureau Drawing No. 83157, and such portions of specification as apply to this part of work. (Supplementary prices stated under (5) and (6) should take cognizance of all changes of design and construction shown on the Bureau Drawing mentioned or referred to in this specification.)

(7) net price to be added to, or deducted from net prices stated under (1), (2), (3) and (4), for each wood pile in excess of, or less than number shown on drawings, based on length of each pile of 45 ft. from point to cut off.

(8) net price to be added to, or deducted from net prices stated under (1), (2), (3) and (4), for each linear foot of wood pile in excess of, or less than length specified in (7).

(9) net price to be added to, or deducted from net prices stated under (1), (5) and (6) for each concrete pile in excess of, or less than number shown on the drawings, based on length of each pile of 35 ft. from point to cut off.

(10) net price to be added to, or deducted from net prices stated under (1), (5) and (6) for each linear foot of concrete pile in excess of, or less than length specified in (9).

Modifications—(a) modification or modifications proposed. (b) change to be made in price named in proposal by reason of proposed modification, from

W. Linker Co., 831 Cherry St., (1) $256,000 (129 days); (2) $11,000; (3) $18,700 (52 days); (4) $30,000 (59 days); (5) add $6347; (6) add $22,330; (7) add $40, deduct $10; (8) add $.80, deduct $.08; (9) add $.50, deduct $.15; (10) add $2.00, deduct $.50.

Work Co., 1737 Filbert St., (1) $256,860 (130 days); (2) $10,945 (45 days); (3) $19,130; (4) $31,920; (5) add $5725; (6) add $13,225; (7a) deduct $19; (7b) add $24; (8a) deduct $.15; (9) deduct $26.25, add $56; (10) deduct $.75, add $2.00.

H. S. McCloskey, 1620 Thompson St., (1) $257,392, as specified; (2) $10,65[illegible]; (3) $18,934; (4) $31,743; (5) $5797; (6) $5917, (7) add $30, deduct $15; (8) add $.10, deduct $.10; (9) add 47, deduct $25; (10) add $1.60, deduct $.60.

D. C., Wash.—Headhouse and Sheds—Dist. Comrs., Dist. Bldg., received bids building on Water St.,

(1) headhouse, (2) shed A, (3) shed B, (4) shed C, (5) alternate A, (6) alternate B, (7) alternate C, (8) alternate D, (9) alternate E.

W. E. Mooney, Evans Bldg., (1) $28,342, (2) $52, (3) $77, (4) add $3273, (5) add $100, (6) add $200, (7) deduct $150, (8) deduct $250, (5 months).

A. C. Moses Constr. Co., 916 New York Ave., N. W., (1) $30,950, (2) $45, (3) $85, (4) $20, (5) add $3700, (6) deduct $2150, (7) deduct $2090, (8) deduct $50, (9) deduct $50, (5 months).

S. R. Harris, 710 14th St., (1) $32,828, (2) $59, (3) $84, (4) $20, (5) $3795, (6) $2270, (7) deduct $2210, (8) deduct $50, (9) deduct $50, (5 months).

D. C., Wash.—Laboratory—U. S. Constr. Quartermaster, War College, Wash., Barracks, received bids Feb. 15, building photographic laboratory at Army War College, from H. S. Roberts, Wash., (1) $77,950, (1b) $1900, (1c) $3700, (1d) $1200, (1e) $350, (1f) $475, (1g) $900, (1h) $750; Singer Pentz Co., 500 Equitable Bldg., Baltimore, Md., (1) $61,807, (1a) $8993, (1b) 1837, (1c) $5713, (1d) $2675, (1e) $740, (1f) $850, (1g) $1200, (1h) $1067; Boyle & Robertson Constr. Co., 601 Evans Bldg., (work complete) $82,640. Noted Feb. 6.

★**D. C., Wash.**—Mechanical Equipment—Bureau Yards & Docks, Navy Dept., let contract installing mechanical equipment in hygienic laboratory, to J. E. Granberry, Ferdal Bldg., $43,224 (6 months). Noted Feb. 6.

D. C., Wash.—Piping and Equipment—Bureau Yards & Docks, Navy Dept., received bids installing piping and equipment for 3200 k.w. turbo alternator at Navy Yard, here, (work complete) from Baker, Dunbar, Allen Co., Stock Exch. Bldg., Phila., Pa., $10,180 (90 days); Gillis & Gehagen, 537 West Bway., New York City, $10,900 (120 days); Almiral & Co., 1 Dominick St., New York City, $11,550.

★**Va., Petersburg**—Altering Post Office and Custom House—J. A. Wetmore, superv. archt., treas. dept., Wash., D. C., let contract, to J. L. Robinson Constr. Co., 66 Knickerbocker Bldg., Baltimore, Md., $7373. Noted Jan. 16.

Mont., Great Falls—Roads—Dist. Engr., U. S. Dept. Agriculture, 413 Montana Bldg., Missoula, received only bid Feb. 15, building 18.9 mi. Belt Creek Natl. Forest Rd., Cascade Co., from Clifton & Applegate, Anaconda, $142,828. Work involves 79,000 cu.yd. earth excav., 10,000 cu.yd. rock excav., clearing and grubbing 30 acres, building ten 8-40 ft. span bridges, etc. Noted Feb. 6.

Mont., White Sulphur Springs—Roads—Dist. Engr., U. S. Dept. Agriculture, 413 Montana Bldg., Missoula, received bids Feb. 15, building in Meagher Co., (1) 5 mi. Sect. 1 Sheep Creek Natl. Forest Rd., involving 350,000 cu.yd. earth excav., 1600 cu.yd. rock excav., clearing and grubbing 18 acres, etc.; (2) 5.3 mi. Sect. 2, Sheep Creek Natl. Forest Rd., involving 28,000 cu.yd. earth excav., 1000 cu.yd. rock excav., 1 log truss bridge, clearing and grubbing 10 acres, etc., from W. L. Tillman, Roundup, (1) $27,605, (2) $21,811; White & Brown, (1) $41,325, (2) $33,172. Noted Feb. 6.

★**Mo., St. Louis**—Hospital—U. S. Government let contract building 3-5 story, reinf. con., steel and brick hospital group, 5800 Arsenal St., to Murch Bros. Constr. Co., Ry. Exch. Bldg., $150,000.

Tex., North Ft. Worth—Cooling Pond—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids Feb. 24, building at argon production plant, (1) price and time for design of cooling pond and furnishing and installing all pumps, motors, piping spray nozzles, valves and fittings, complete, to points indicated on drawings, from Carroll Electric Co., 714 12th St., Wash., D. C., (1) $21,640 (150 days); Cooling Tower Co., 15 John St., New York City, (1) $18,000 (145 days); Krahl Constr. Co., 350 North Clark St., Chicago, (1) $27,816 (140 days). Noted Feb. 20.

Federal Government Work (Continued)

Tex., North Ft. Worth—Wells and Pumps—Bureau Yards & Docks, Navy Dept., Wash., D. C. received only bid Feb. 24, installing at argon production plant, (1) work complete in accordance with specification; (2) under this, bidders may submit proposals for work complete, in accordance with spirit of specification, but with such modifications and details as they desire, provided all such modifications are fully described in proposal, from W. H. Cater, 2843 Monroe St., Chicago, (1) $110,225 (150 days); (2) $75,400, (3) $75,994, (120 days); (4) $70,321, (129 days). Noted Feb. 6.

Cal., Mare Island (Vallejo P. O.)—Fuel Oil Storage Plant—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids Feb. 24, building at Navy Yard, here, (1) 44,560 cu.yd. excav., (2) 4200 cu.yd. rein.-con., (3) 450,000 cu.yd. reinforcement for concrete, (4) miscellaneous metal work, (5) buildings, including piles, (5a) addition or deduction for each foot of pile more or less than 40 ft. length specified, (6) mechanical and electrical equipment, (7) piping, except piping in boiler house, (8) piping in boiler house, (9) lighting and power systems, (10) alternative foam fire protection system, amount to be deducted from the summation of (5, 6, 7, 8 and 9), (11a) tests as required by (1 to 9) inclusive, (11b) tests B, as required by (1 to 10) inclusive.

John W. Danforth, 72 Ellicott St., Buffalo, N. Y., (1) $.95; (2) $17.40; (3) $.0614; (4) $2,260; (5) $41,985; (5a) add $.35, deduct $.22; (6) $123,428; (7) $142,660; (8) $16,506; (9) 13,900; (10) $25,900; (11a) $2500; (11b) $2250, 240 days.

C. C. Moore & Co., Shelden Bldg., San Francisco, (1) $.765; (2) $17.01; (3) $6.25; (4) $24,000; (5) $37,800; (5a) $.37; (6) $157,400; (7) $131,740; (8) $13,650; (9) $8500; (10) 30,522; (11a) $1500; (11b) $1500, (210 days).

Almiral & Co., 1 Dominick St., New York City, (1) $1.02; (2) $15.90; (3) $.06; (4) $2118; (5) $43,467; (5a) deduct $.24, add $.42; (6) $141,603; (7) $115,367; (8) $15,929; (9) $18,935; (10) $32,350; (11a) $1500; (11b) $1500. (210 days). Noted Jan. 30.

★**Cal., San Diego**—Flood Lighting System—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract installing in fuel depot, here, to F. E. Newberry Electric Co., 724 South Olive St., Los Angeles, $3147 (75 days). Noted Feb. 6.

Miscellaneous

PROPOSED WORK

Grounds Improvements—Boston, Mass.—State Legislature petitioned to appropriate $35,000 to improve State House grounds to include building wall.

Dam—Kent, R. I. (Hope P. O.)—City plans to build rein.-con. dam in connection with new supply of water for Providence. F. E. Winsor, c/o water supply bd., engr.

Flagging, etc.—Brooklyn, N. Y.—E. Riegelmann, boro. pres., rejected all bids received Feb. 11, furnishing and delivering 10,000 sq.yd. blue stone flagging with 2 in. thickness. Noted Feb. 20.

Swimming Pool, Merry-go-Round and Recreation Grounds—Endicott, N. Y.—Endicott, Johnson & Co., 753 Bleecker St., Utica, plans to install swimming pool and build merry-go-round at Ideal Park, here. About $10,000 each. Company also plans to improve recreation grounds connected with their factories here and in Johnson City.

Recreation Grounds—Johnson City, N. Y.—See Endicott, N. Y.

Swimming Pool—La Grange, Ga.—See "Buildings."

Paving Materials—Detroit, Mich.—Dept. Purchases & Supplies, 1302 Real Estate Exch. Bldg., soon lets contract furnishing 75,000 bbls. Portland cement; also 3000 sq.yd. creosoted blocks. J. A. Martin, comr.

Subway — Decatur, Ill. — Illinois Pub. Utilities Comn. plans to build subway under tracks of Wabash Ry. on 7th St., 1700 to 1800 ft. long, 14 ft. head room, 2 driveways each 14 ft. wide and 2 sidewalks each 5 ft. wide. Cost between $300,000 and $500,000.

Park Improvements — Denver, Colo. — Comr. Parks & Impvts. organizing district to acquire lands for park; plans include construction, driveways, subway, and roads. About $100,000 bonds to be voted for project. J. H. Hunter, city engr.

Levee — Palestine, Tex. — Comrs. Levee Dist. No. 2, Anderson Co., plan to issue $200,000 bonds to build levee along east bank Trinity River, 7½ mi. long, 20 ft. high. E. V. Swift, co. judge.

Fill and Bulkhead—Astoria, Ore.—Sanitary & Recl. Comn. having plans prepared improving 3rd Recl. Dist., including filling of tide flats, building retaining wall and 1 bulkhead. About $400,000. Noted Feb. 13.

Dry Dock, etc.—Portland, Ore. — Dock Comn. had plans prepared building 12,000 ton drydock and wooden pontoon, No. 6, at foot St. Johns drydock. About $900,000 will be expended for project. J. B. Hegardt, engr. Noted Jan. 23.

Stadium—Los Angeles, Cal.—City Park Comn., Normal Hill Center, having preliminary plans prepared by J. Parkinson, consult. archt., 420 Title Insurance Bldg., for 260 x 600 ft. concrete stadium in Exposition Park.

Garbage Disposal Plant — Scarborough, Ont.—See "Water Works."

BIDS DESIRED

Electric Fixtures—Hudson, N. Y.—Until Mar. 14, by A. W. Allen, pres. bd. mgrs., New York State Training School for Girls, installing in cottages 5, 7 and 10; advertised in this issue.

Cocks—New York, N. Y.—Until Mar. 6, by N. J. Hayes, comr. of water supply, gas and electricity, Municipal Bldg., furnishing and delivering corporation cocks.

Stone and Screenings—New York, N. Y.—Until Mar. 6, by Dept. of Parks, Bronx Boro., furnishing and delivering broken stone and screenings for parks. F. D. Gallatin, pres.

Tractors—New York, N. Y.—Until Feb. 28, by F. L. Dowling, pres. Manhattan Boro., furnishing and delivering 7 tractors.

Miscellaneous Supplies—Newark, N. J.—Until Mar. 11, by Passaic Valley Sewerage Comn., 31 Clinton St., furnishing f.o.b. cars, 500 tons c.i. pipe, curves and special castings, 16-42 in. diam.

Seawall—Detroit, Mich.—Until Mar. 5, by Windmill Point Land Co., 2258 Penobscot Bldg., filling and grading back of seawall at Windmill Point, 200 ft. wide, 4200 ft. along shore, involving 250,000 to 500,000 cu.yd. hydraulic or floating dredgework. T. M. Campau, 502 Whitney Office Bldg., engr. Noted Feb. 20.

Elevated Roadway—Portland, Ore.—Until Mar. 10, by Bd. Supervs. Multnomah Co., building elevated roadway at Sauvies Island, at north approach to Burlington Ferry.

Culverts—Montreal, Que.—Until Mar. 15, by Bd. Comrs., building additional concrete culverts in connection with aqueduct. About $28,000.

Chimney—Sarnia, Ont.—Until Mar. 14, by I. D. Stewart, city engr., building radial brick chimney, 4 ft. diameter, 125 ft. high, also brick building with rein.-con. approaches furnace, flumes, etc. About $300,000.

Pipe, etc.—York, Ont.—Until Mar. 8, by York Twp., furnishing and delivering following: 6535 lengths 6-24 in. c.i. pipes, 397 Nos. 6-24 in. c.i. specials, 73 Nos. 6-24 in. gate valves, 3 No. 12 in. pressure regulating valves, 1 No. 16 in. pressure regulating valve, 200 hydrants, 200 round c.i. valve covers and frames, and 10 3 piece c. i. valve covers and frames. F. Barber, 40 Jarvis St., Toronto, twp. engr.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Asphalt, etc.—Brooklyn, N. Y.**—E. Riegelmann, boro. pres., let contract to Warner Quinlan Asphalt Co., 79 Wall St., New York City, furnishing and delivering 240,000 gal refined asphalt in liquid form and 50 tons refined asphalt in containing packages, $17,712; Hastings Paving Co., 25 Broad St., New York City, 50,000 asphalt paving blocks with depth of 2½ in., $3845; J. Leopold & Co., Woolworth Bldg., New York City, 40,000 grade 1 granite paving blocks, $5000; 40,000 grade 1 wood paving blocks, $2230; L. Finkelstein, 1071 Lafayette St., New York City, 6000 bbl. Portland cement, $16,800; New York Trap Rock Co., 17 Battery Pl., New York City, 1500 tons limestone, $12,975; Newtown Supply Co., Varick Ave., 800 cu.yd. paving gravel, $2537; Barrett Co., 17 Battery Pl., New York City, 250 tons paving pitch, $4750; Amer. Bldg. Material Co., Neptune Ave., 7000 cu.yd. asphalt sand, $10,290; J. J. Quinlan, 1633 Shore Rd., 4000 cu.yd. paving sand, $5320; 3000 cu.yd. binder stone, $8370. Noted Feb. 20.

★**Gasolene—New York, N. Y.**—F. L. Dowling, boro. pres., let contract furnishing and delivering 40,000 gal. gasoline, to Tidewater Oil Co., 11 B'way, $9800. Noted Feb. 13.

Truck, Tractor, etc.—New York, N. Y.—C. D. Van Name, pres. Richmond Boro., received only bid Feb. 18, furnishing and delivering 2½ ton automobile truck and 3 ton automobile tractor and semi-trailer, from J. B. Truck Co., 1832 Bway. Noted Feb. 13.

★**Coal Pocket—Rochelle Park, N. J.**—Pennsylvania Coal Co. let contract building concrete coal pocket, to Linde & Griffith, foot 4th Ave., Jersey City. About $20,000.

★**Pier—Phila., Pa.**—Gulf Refining Co., Frick Annex, Pittsburgh, let contract building rein.-con. and steel pier here, to Raymond Concrete Pile Co., 90 West St., New York City. About $150,000.

★**Gas Holder—Baltimore, Md.**—Consolidated Gas, Electric Light & Power Co., Lexington Bldg., will build steel gas holder on concrete foundation, at Spring Gardens. Work involves 7720 steel plates with necessary angles, channels and beams, 1,090,000 riveted, etc. About $125,000. Work will be done by day labor.

★**Coal and Ore Pockets—River Rouge, Mich.**—See "Industrial Works."

Fill—Seattle, Wash.—Bd. Pub. Wks. received only bid Feb. 14, filling and bulkheading land in Elliott Ave., Sanitary Fill No. 1, from Tacoma Dredging Co., Natl. Bank of Tacoma Bldg., $149,078. Former bids rejected. Noted Jan. 30.

Gantry Crane — Seattle, Wash. — Port Comn. of Port of Seattle, Bell St. Warehouse, Bell St., received bids Feb. 19, furnishing and installing gantry crane, Smith's Cove Impvt. Pier B, from Lakeside Eng. & Steel Co., Milwaukee, Wis., $64,450, alternate, $63,000; Fulton Engine Works, 1000 Alhambra St., Los Angeles, Cal., $65,435, alternate $58,935; Pacific Derrick & Hoist Co., Seattle, $70,075; Brown Hoist & Machy. Co., 4403 St. Clair St., N. E., Cleveland, O., alternate, $54,600. Noted Jan. 2.

Dam, Tunnels, etc.—Fresno, Cal.—See "Industrial Works."

Dam—Los Angeles, Cal.—Bd. Supervs. Los Angeles Co. received bids Feb. 19, building concrete masonry arch dam, 125 ft. high, northwest of Pasedena, for county flood control districts, from Bent Bros., Central Bldg., $169,907; McPeak & Dillon, Los Angeles, $199,595; W. C. Crowell, 440 Chamber of Commerce Bldg., Pasadena, $224,850. Work involves 6000 yd. rock excav., 5000 yd. earth excav., 33,000 yd. concrete with stone embedded, 300 ft. concrete outlet tunnel, 120 ft. concrete spillway, concrete arches supporting roadway on top, etc. County furnishes cement. Noted Feb. 6.

Automatic Sprinkler System—Portland, Ore.—Dock Comn. received bids installing automatic sprinkler system on pier No. 1, from Automatic Sprinkler Co., Ry. Exch. Bldg., $54,904; Pacific Fire Extinguisher Co., Ry. Exch. Bldg., $57,800; Rockford Sprinkler Co., Bd. of Trade Bldg., $58,840.

APPROPRIATION FOR BUILDINGS BY TREASURY DEPARTMENT

The following are additional appropriations for post offices and court houses, some new, others enlargements and still others are for additional funds on post offices for which bids have been opened recently but no awards made owing to insufficient funds.

		Approximate Appropriation
Aberdeen, Miss.	Post Office and Court House	$25,000
Adams, Mass.	Post Office	85,000
Aiken, S. C.	Post Office and Court House	85,000
Albany, N. Y.	Post Office and other government offices	10,000
Albemarle, N. C.	Post Office	50,000
Albert Lea, Minn.	Post Office	85,000
Alexandria, Va.	Post Office and other government offices	115,000
Algona, Ia.	Post Office	65,000
Alva, Okla.	Post Office	60,000
Alvin, Tex.	Post Office	45,000
Anadarko, Okla.	Post Office	45,000
Appleton, Wis.	Post Office	50,000
Asheville, N. C.	Post Office	95,000
Athens, Ala.	Post Office	50,000
Atlantic City, N. J.	Post Office	350,000
Attalla, Ala.	Post Office	40,000
Aurora, Mo.	Post Office	65,000
Baltimore, Md.	Post Office	1,000,000
Barbourville, Ky.	Post Office and other offices	40,000

Miscellaneous (Continued)

Bath, N. Y.	Post Office	$50,000
Beaver Falls, Pa.	Post Office	58,000
Benton Harbor, Mich.	Post Office	80,000
Binghamton, N. Y.	Post Office and court house	500,000
Blackfoot, Idaho	Post Office	90,000
Bloomington, Ill.	Post Office and other offices	350,000
Bogalusa, La.	Post Office	75,000
Boise, Idaho	Post Office	40,000
Boston, Mass.	Post Office and subtreasury	300,000
Boston, Mass.	Post Office and other offices	3,500,000
Bowling Green, Mo.	Post Office	50,000
Boyne City, Mich.	Post Office	40,000
Brinkley, Ark.	Post Office	40,000
Bristol, Va.	Post Office	80,000
Brownsville, Tex.	Post Office	305,000
Bronx, N. Y.	Post Office	1,000,000
Brunswick, Maine	Post Office	90,000
Bucyrus, O.	Post Office	115,000
Butte, Mont.	Post Office	275,000
Caldwell, Idaho	Post Office	85,000
Canajoharie, N. Y.	Post Office	60,000
Canon City, Colo.	Post Office and other offices	85,000
Canton, Ga.	Post Office and other offices	40,000
Canton, O.	Post Office and other offices	630,000
Cape Charles, Va.	Post Office	50,000
Carbondale, Ill.	Post Office	75,000
Carlinville, Ill.	Post Office	45,000
Carrollton, Ill.	Post Office	40,000
Catskill, N. Y.	Post Office	85,000
Central City, Ky.	Post Office and other offices	40,000
Clare, Mich.	Post Office	45,000
Claremont, N. H.	Post Office	55,000
Clarksburg, W. Va.	Post Office	300,000
Clayton, N. Y.	Post Office	85,000
Circleville, O.	Post Office	65,000
Clearwater, Fla.	Post Office	45,000
Coleman, Tex.	Post Office and other offices	40,000
Columbia, Mo.	Post Office	102,000
Columbus, Kan.	Post Office	50,000
Conway, Ark.	Post Office and other offices	50,000
Coraopolis, Pa.	Post Office	75,000
Corning, Ia.	Post Office	50,000
Council Grove, Kan.	Post Office	45,000
Crockett, Tex.	Post Office	50,000
Cumberland, Md.	Post Office	120,000
Cuthbert, Ga.	Post Office	45,000
Dallas, Tex.	Post Office and other offices	1,400,000
Dansville, N. Y.	Post Office	100,000
Decatur, Ill.	Post Office	106,000
De Funiak Springs, Fla.	Post Office	40,000
De Ridder, La.	Post Office	40,000
Detroit, Minn.	Post Office	75,000
Dillon, S. C.	Post Office	40,000
Dover, N. J.	Post Office	90,000
Duluth, Minn.	Post Office (remodeling)	500,000
Dunn, N. C.	Post Office	45,000
Duquesne, Pa.	Post Office	100,000
Eagle Grove, Ia.	Post Office	45,000
East Moline, Ill.	Post Office	45,000
Easton, Md.	Post Office	45,000
Eaton, O.	Post Office	45,000
Edenton, N. C.	Post Office	40,000
Effingham, Ill.	Post Office	65,000
El Campo, Tex.	Post Office	25,000
Eldorado, Ark.	Post Office	55,000
Elizabethton, Tenn.	Post Office	40,000
Elko, Nev.	Post Office	59,000
Elkton, Md.	Post Office	65,000
Eminence, Ky.	Post Office	40,000
Erie, Pa.	Post Office	250,000
Fairfield, Iowa	Post Office	75,000
Falmouth, Ky.	Post Office	40,000
Fargo, N. D.	Post Office and other offices	400,000
Farmington, Mo.	Post Office	45,000
Findlay, O.	Post Office	50,000
Flint, Mich.	Post Office	100,000
Forest City, Ark.	Post Office and other offices	50,000
Ft. Scott, Kan.	Post Office	5,000
Ft. Valley, Ga.	Post Office	50,000
Ft. Wayne, Ind.	Post Office	350,000
Ft. Worth, Tex.	Post Office	600,000
Framingham, Mass.	Post Office	150,000
Galesburg, Ill.	Post Office	110,000
Galva, Ill.	Post Office	70,000
Gardner, Mass.	Post Office	125,000
Gatesville, Tex.	Post Office	45,000
Georgetown, Del.	Post Office	40,000
Georgetown, Tex.	Post Office and other offices	45,000
Geneva, Neb.	Post Office	45,000
Gloucester, Mass.	Post Office and offices	150,000
Grand Rapids, Wis.	Post Office and offices	70,000
Great Barrington, Mass.	Post Office and offices	85,000
Green River, Wyo.	Post Office and other offices	45,000
Greensburg, Ind.	Post Office and other offices	$75,000
Greenville, Ala.	Post Office and other offices	40,000
Harrisonburg, Va.	Post Office	80,000
Havana, Ill.	Post Office and other offices	50,000
Highland, Ill.	Post Office and other offices	45,000
Hobart, Okla.	Post Office and other offices	60,000
Holton, Kan.	Post Office and other offices	50,000
Houlton, Maine	Post Office	65,000
Houston, Tex.	Repair and improvements to old Post Office	75,000
Huntingdon, Tenn.	Post Office and other offices	35,000
Huntsville, Tex.	Post Office and other offices	40,000
Iowa City, Iowa	Post Office and other offices	100,000
Ithaca, N. Y.	Post Office and other offices	115,000
Jackson, Miss.	Post Office and Court House	125,000
Jackson, O.	Post Office and other offices	40,000
Jamestown, N. Y.	Post Office and other offices	210,000
Jefferson City, Mo.	Post Office and other offices	50,000
Kansas City, Mo.	Post Office and Court House	410,000
Kissimmee, Fla.	Post Office and other offices	50,000
Lake City, Fla.	Post Office and other offices	50,000
Lancaster, Pa.	Post Office and other offices	500,000
Lawrence, Kan.	Post Office	50,000
Lebanon, Ind.	Post Office and other offices	65,000
Lenoir, N. C.	Post Office and other offices	45,000
Linton, Ind.	Post Office and other offices	50,000
Logansport, Ind.	Post Office	100,000
Long Beach, Cal.	Post Office and other offices	200,000
Lowell, Ind.	Post Office	500,000
Lumberton, N. C.	Post Office and other offices	40,000
Lynn, Mass.	Post Office	600,000
Lyons, N. Y.	Post Office and other offices	55,000
Madisonville, Ky.	Post Office and other offices	65,000
Manchester, Conn.	Post Office	40,000
Manchester, N. H.	Post Office and other offices	85,000
Marengo, Iowa	Post Office	30,000
Mason, Ga.	Post Office and other offices	180,000
Missoula, Mont.	Post Office and Court House	160,000
Mobile, Ala.	Court House	100,000
Modesto, Cal.	Post Office	90,000
Monroe, Ga.	Post Office and offices	40,000
Montrose, Colo.	Post Office, Court House, Land Office and offices	350,000
Mt. Airy, N. C.	Post Office and other offices	55,000
Morgan City, La.	Post Office and other offices	50,000
Mountain Grove, Mo.	Post Office	45,000
Mt. Olive, N. C.	Post Office	40,000
Mt. Vernon, Ind.	Post Office	50,000
Murray, Ky.	Post Office	40,000
Nampa, Idaho	Post Office	85,000
Nephi, Utah	Post Office	30,000
Newark, Del.	Post Office	40,000
Newcastle, Wyo.	Post Office and other offices	40,000
New Martinsville, W. Va.	Post Office and other offices	40,000
Newton, Iowa	Post Office	80,000
Niles, O.	Post Office	90,000
Noblesville, Ind.	Post Office	65,000
Norfolk, Va.	Post Office and Court House	875,000
Norristown, Pa.	Post Office	75,000
Nyack, N. Y.	Post Office	80,000
Oak Park, Ill.	Post Office	150,000
Oelwein, Iowa	Post Office	60,000
Oneida, N. Y.	Post Office	75,000
Paintsville, Ky.	Post Office	40,000
Passaic, N. J.	Post Office	200,000
Petersburg, Va.	Post Office and other offices	85,000
Philippi, W. Va.	Post Office	40,000
Pikeville, Ky.	Post Office, Dept. of Justice, and other offices	40,000
Plattsburg, N. Y.	Post Office and Court House	80,000
Plymouth, Ind.	Post Office	75,000
Poughkeepsie, N. Y.	Post Office and other offices	106,000
Pottsville, Pa.	Post Office and other offices	144,000
Provincetown, Mass.	Post Office and other offices	$70,000
Reno, Nevada	Post Office and other offices	120,000
Roanoke, Va.	Post Office and other offices	75,000
Rogersville, Tenn.	Post Office	37,500
Rossville, Ga.	Post Office	50,000
Saco, Me.	Post Office	25,000
Sacramento, Cal.	Post Office and other offices	60,000
Saginaw, Mich.	Post Office and other offices	200,000
Saint Augustine, Fla.	Post Office and other offices	100,000
Saint Cloud, Minn.	Post Office and other offices	80,000
Saint Marys, O.	Post Office	50,000
Salem, N. J.	Post Office	65,000
Salem, Va.	Post Office	5,000
Salisbury, Md.	Post Office	15,000
San Antonio, Tex.	Post Office and other offices	250,000
San Bernardino, Cal.	Post Office and other offices	100,000
Sandersville, Ga.	Post Office and other offices	30,000
Sandusky, O.	Post Office	80,000
San Francisco, Cal.	U. S. Marine Hospital	800,000
Saranac Lake, N. Y.	Post Office	13,500
Savannah, Ga.	Post Office and other offices	650,000
Sayre, Pa.	Post Office	10,000
Scranton, Pa.	Post Office and other offices	525,000
Seguin, Tex.	Post Office	40,000
Shawnee, Okla.	Post Office	10,000
Shelbyville, Ind.	Post Office and other offices	15,000
Shelbyville, Ky.	Post Office	$20,000
Shenandoah, Iowa	Post Office	45,000
Sioux City, Iowa	Post Office and other offices	350,000
Southbridge, Mass.	Post Office	43,000
South Manchester, Conn.	Post Office	75,000
Spanish Fork, Utah	Post Office	35,000
Springfield, Ill.	Post Office and other offices	200,000
Spring Valley, Ill.	Post Office	40,000
State College, Pa.	Post Office	29,500
Sterling, Colo.	Post Office	90,000
Sterling, Ill.	Post Office	50,000
Steubenville, O.	Post Office	150,000
Stuttgart, Ark.	Post Office and other offices	55,000
Sunbury, Pa.	Post Office	50,000
Sweetwater, Tex.	Post Office and other offices	40,000
Sylacauga, Ala.	Post Office and other offices	40,000
Tamaqua, Pa.	Post Office	37,500
Tarentum, Pa.	Post Office	30,000
Taylor, Tex.	Post Office and other offices	75,000
Terre Haute, Ind.	Post Office and other offices	225,000
Thomasville, N. C.	Post Office	13,000
Tomah, Wis.	Post Office	3,000
Trenton, Mo.	Post Office	85,000
Trenton, N. J.	Post Office and other offices	350,000
Tullahoma, Tenn.	Post Office	5,000
Tyrone, Pa.	Post Office and other offices	125,000
Union Springs, Ala.	Post Office	40,000
Unionville, Mo.	Post Office	40,000
Urbana, O.	Post Office	50,000
Vermilion, S. D.	Post Office	35,000
Vernal, Utah	Post Office	52,500
Vincennes, Ind.	Post Office and other offices	90,000
Vineland, N. J.	Post Office	26,000
Waco, Texas	Post Office	60,000
Walden, N. Y.	Post Office	17,500
Waltham, Mass.	Post Office	132,000
Warren, O.	Post Office and other offices	128,000
Warren, R. I.	Post Office	50,000
Warsaw, Ind.	Post Office	75,000
Washington C. H., O.	Post Office	90,000
Washington, Mo.	Post Office	1,000
Washington, Pa.	Post Office	90,000
Waterbury, Conn.	Post Office	265,000
Waterloo, N. Y.	Post Office	16,000
Water Valley, Miss.	Post Office	15,000
Wausau, Wis.	Post Office and other offices	65,000
Waynesboro, Ga.	Post Office	40,000
Waynesburg, Pa.	Post Office	52,000
West Plains, Mo.	Post Office	40,000
West Point, Ga.	Post Office	18,000
Wellington, Kan.	Entomological Station	15,000
Williamsport, Pa.	Post Office	110,000
Wilson, N. C.	Post Office	140,000
Winchester, Mass.	Post Office	22,500
Winnfield, La.	Post Office	40,000
Woodbury, N. J.	Post Office	20,000
Woodstock, Ill.	Post Office	45,000
Woodward, Okla.	Post Office	10,000
Wyandotte, Mich.	Post Office	20,000
Yonkers, N. Y.	Post Office	150,000
York, Pa.	Post Office	25,000
Zanesville, O.	Post Office and other offices	175,000

CONSTRUCTION MATERIALS

SAND AND GRAVEL—Price for cargo or carload lots is as follows, per cu.yd.:

	Gravel 1½ In. Current	Gravel 1½ In. One Yr. Ago	Gravel ¾ In. Current	Gravel ¾ In. One Yr. Ago	Sand Current	Sand One Yr. Ago
New York	$2.00		$2.00		$1.25	$1.25
Denver	1.60	$1.50	1.60	$1.50	1.10	1.05
Chicago	2.00	1.50		1.50	1.10	1.50
Kansas City	2.50	2.15	3.00	2.60	1.00†	.90
St. Louis*	1.76	1.21	1.82	1.21	1.68	1.21
Seattle	1.25	.80	1.25	.80	1.25	.80
Dallas	2.00	2.00	2.00	2.00	*1.35*	1.35
St. Paul	1.25	1.00	1.35	1.40	.60	.50
San Francisco	*1.15*	1.00	*1.15*	1.00	*1.15*	1.00
Boston	2.75	1.50	2.75	1.60	2.00	1.10
New Orleans	2.82	1.95	....		1.88	1.95
Cincinnati	1.35	1.65	....	1.65	1.35‡	1.65
Atlanta	2.40	....	2.40	....	1.12	....

*Fine white sand, Pacific and Ottawa per ton, $6. †Kaw River sand is $1.50 per yd. ‡Per ton.

CRUSHED STONE—Price for cargo or carload lots is as follows, per cu.yd.:

	1½ In. Current	1½ In. One Year Ago	¾ In. Current	¾ In. One Year Ago
New York	$1.65–1.75	$1.60	$1.75–1.85	$1.75
Chicago	1.60	1.50	1.70	1.50
St. Louis	1.35	1.35	1.35	1.35
Dallas	2.25	1.51	2.25	1.55
San Francisco	*1.15*	1.00	*1.15*	1.00
Boston	3.00*	1.50	3.00*	1.60
St. Paul	1.15	1.00	1.25	1.10
Denver		1.50	1.60	1.50
Kansas City	1.70	1.60	1.80	1.70
Seattle	1.50	1.10	1.50	1.10
Atlanta	2.60	1.50–1.75	2.60	1.75–2.00
Cincinnati	1.50	1.75	....	1.75

*Per ton in city.

LIME—Warehouse prices:

	Hydrated per Ton Finished	Hydrated per Ton Common	Lump per 300-Lb. Barrel Finished	Lump per 300-Lb. Barrel Common
New York	$17.50	$14.50	$2.90	$2.65
Kansas City	22.80	*21.00*	2.35*	2.20*
Chicago	18.00	17.50	1.80*	1.10*
St. Louis	22.00	18.00	....	1.75*
Boston	22.20	*18.00*	3.75	3.40
Dallas	2.25*	1.25*	....	
San Francisco	*19.00*	16.00	....	*2.00*†
St. Paul	25.00	19.50	1.97†	1.93†
New Orleans	*19.74*	16.45	1.974*	*1.927**
Atlanta		16.50	.....	1.65‡
Cincinnati	14.20	*11.95*	.....	
Denver		26.25		2.50*
Seattle	30.00	....	2.80†	.....

* 200-lb. barrels. † Per 180-lb. barrel. ‡ Per ton.

NOTE—Refund of 10c. per barrel.

NATURAL CEMENT — Price to dealers for 500 bbl. or over, f.o.b., exclusive of bags:

Cincinnati (Utica)	$1.50
St. Paul (Austin)	1.63
Boston (Rosendale)	none
Kansas City (Ft. Scott)	1.30
New Orleans	2.52

PORTLAND CEMENT—These prices are for barrels in carload lots, including bags, to contractors:

	Current	One Month Ago	One Year Ago
New York	$3.45	$3.45	$2.25
Jersey City	3.62	3.62	2.16
Boston	*3.57*	3.67	2.37
Chicago	3.05	3.05	2.21
Pittsburgh	3.15	3.15	2.31
Cleveland	3.32	3.32	2.44
Detroit	3.28	3.28	2.40
Indianapolis	3.22	3.22	2.38
Toledo	3.22	3.22	2.40
Milwaukee	3.16	3.16	2.33
Duluth	3.20	3.20	2.51
Peoria	3.16	3.16	2.33
Cedar Rapids	3.28	3.28	2.48
Davenport	3.24	3.24	2.40
St. Louis	3.30	3.30	2.45
San Francisco	3.60	3.03	2.80
New Orleans	3.77	3.77	2.70
St. Paul	3.40	3.40	3.20
Denver	3.67	3.67	3.20
Kansas City	3.30	3.30	2.44
Seattle	*3.18*	3.33	3.25
Dallas	2.93	2.93	2.60
Atlanta	3.75	....	....
Cincinnati	2.80	2.80	2.92

NOTE—Bag Refund is generally 25c. each; exceptions: Cincinnati, 9c.; Dallas, 10c.; San Francisco, 15c.

TRIANGLE MESH—Price per 100 sq.ft. in carload lots:

PLAIN 4-IN. x 4-IN. MESH

Style Number	Sectional Area Square Inches per Ft.	Width	Pitts-burgh	New York	Chicago	St. Louis	Dallas	San Fran-cisco
032	0.032		$0.96	$1.09	$1.02	$1.03	$1.13	$21.36
049	0.049		1.22	1.40	1.30	1.32	1.43	1.72
068	0.068		1.52	1.73	1.62	1.64	1.79	3.15
093	0.093		1.96	2.23	2.09	2.11	2.41	2.77
126	0.126		2.48	2.82	2.63	2.67	2.92	3.50
153	0.153		2.96	3.38	3.15	3.19	3.48	4.18
180	0.180		3.39	3.85	3.60	3.66	3.99	....
245	0.245		4.48	5.10	4.75	4.83	5.27	....
287	0.287		5.18	5.90	5.50	5.58	6.10	7.31
336	0.336		6.00	6.83	6.37	6.47	7.06	....
395	0.395		6.96	7.89	7.40	7.50	8.19	....

PAVING

036	0.036	$0.74	$0.84	$0.84	$0.80	$0.80	....
053	0.053	1.04	1.25	1.25	1.12	1.12	....
072	0.072	1.35	1.58	1.53	1.46	1.46	....
097	0.097	1.74	1.98	1.98	1.88	1.88	....
049	0.049	1.04	1.25	1.25	1.12	1.12	....
067	0.067	1.35	1.53	1.53	1.46	1.46	....
089	0.089	1.80	1.98	1.98	1.88	1.88	....

Made in 16-, 20-, 24-, 28-, 32-, 36-, 40-, 44-, 48-, 52- and 56-in. width in rolls 150-, 200- and 300-ft. lengths.

Galvanized is about 10% higher.

EXPANDED METAL LATH—Prices in carload lots per 100 yd. for painted are as follows:

Gage	Weight	New York Current	New York One Year Ago	Chicago	St. Louis	San Francisco	Dallas
27	233	$34.07	$30.97	$31.00	$34.00	$38.00	$34.75
26	250	35.23	32.03	32.00	35.00	40.00	36.25
25	300	36.51	33.19	33.25		42.50	38.15
24	340	37.73	34.30	34.50	37.00	.....	40.10
22	450	40.48	36.38	.....	.....	.....	43.10

About 10% additional for smaller quantities.

BARS, CONCRETE REINFORCING — The following quotations are per 100 lb.:

ROLLED FROM BILLETS

In.	Mill Pittsburgh	New York Current	New York One Year Ago	Chicago	St. Louis	Dallas	San Francisco
¾ and larger	$2.90	$4.12	$4.09½	$3.97	$4.04	$4.75	$5.15
⅝	2.95	4.18	4.14½	4.02	4.08	4.80	5.20
½	3.00	4.23	4.19½	4.07	4.14	4.90	5.25
⅜	3.15	4.38	4.34½	4.22	4.29	5.00	5.40
¼	3.40	4.62	4.59½	4.47	4.42	5.25	5.65

Twisted bars cut to length take extra of 27½c. per 100 lb. Extra on deformed bars, uncut, 7½c.

ROLLED FROM RAILS

	Chicago	St. Louis	Dallas		Chicago	St. Louis	Dallas
¾ in. and larger	$2.97	$2.80	$4.75	⅝	$3.22	$3.05	$5.00
⅝	3.02	2.85	4.80	½	3.37	....	5.25
½	3.07	2.90	4.90				

BRICK—To contractors the price per 1000 in cargo or carload lots is as follows:

	Common Current	Common One Month Ago	Common One Year Ago	Paving Brick	Paving Block
New York	$15.00	$15.00	$10.25	No Quotations	
Chicago	12.00	12.00	8.00	$31.00	*$33.00*
St. Louis, selected	18.00	18.00	11.00	....	....
St. Louis, salmon	12.00*	12.00	9.00	28.00	....
Denver	12.00†	12.00	8.50	....	....
Dallas	16.07	16.07	11.00	26.50	...
San Francisco	12.50	12.00	10.00	....	....
Boston (on job)	18.00	18.00	13.25	30.00	45.50
New Orleans	15.98	15.98	10.60	16.92	
St. Paul	10.25	10.25	8.35	30.00	37.50
Kansas City	14.00	14.00	11.00	52.00	....
Seattle	15.00	15.00	10.00	*36.00*	....
Cincinnati	*16.50*	16.75	13.50	....	....
Atlanta	16.00		10.00	....	....

* Hard brick, $16. † Salmon is $10. ‡ Water-struck; sand-struck is $21.

HOLLOW TILE—Price per block in carload lots for hollow building tile:

	New York Current	New York One Year Ago	Chicago	St. Louis	San Francisco	Dallas	Factory Perth Amboy, N. J.
4x12x12	$0.11925	.....	$0.07	$0.08	$0.1125	$0.1072	....
6x12x12	.159	.....	.095	105	.15	.1474	$0.1512
8x12x12	.....	.....	.12	15	.....	.2010	.1944
10x12x12	.....	.....	.14	173	.....	.2546	.2263
12x12x12	.....	.....	.195	208	.....	*.3082*	.2916
			4x12x12		8x12x12		12x12x12
Boston			$0.11		$0.20		$0.29
St. Paul			.056		.11		.162
Cincinnati			.086		.165		.218
Kansas City			.0786		.15		.205
Seattle			.09		.175		.30
Atlanta			.095		.13		.205
New Orleans			.16		.22		.32

STRUCTURAL MATERIAL—The following are the base prices f.o.b. mill, Pittsburgh, together with the quotations per 100 lb. from warehouses at the places named:

	Mill Pitts-burgh	New York Cur-rent	New York 1 Yr. Ago	St. Louis	Chi-cago	San Fran-cisco	Dallas
Beams, 3 to 15 in.	$2.80	$4.07	$4.195	$4.14	$4.07	$5.25	*$5.50*
Channels, 3 to 15 in.	2.80	4.07	4.195	4.14	4.07	5.25	*5.50*
Angles, 3 to 6 in., ¼ in. thick	2.80	4.07	4.195	4.14	4.07	5.25	*5.50*
Tees, 3 in. and larger	2.80	4.12	4.195	4.14	4.07	5.25	*5.50*
Plates	3.00	4.27	4.445	4.14	4.27	5.50	*5.70*

RIVETS—The following quotations are per 100 lb.:

STRUCTURAL

	Mill Pittsburgh	New York Current	New York One Yr. Ago	Chi-cago	St. Louis	San Fran-cisco	Dallas
¾ in. and larger	$4.40	$5.67	$7.00	$5.57	$4.74	$6.70	$7.00
CONE HEAD BOILER							
¾ in. and larger	4.50	5.77	7.10	5.67	4.84	6.80	7.10
⅝ and ⅞	3.65	5.92	7.25	5.82	4.99	6.95	7.25
½ and ⅝	5.00	6.27	7.60	6.17	5.24	7.30	7.60

Lengths shorter than 1 in. take an extra of 50c. Lengths between 1 in. and 2 in. take an extra of 25c.

PREPARED ROOFINGS—Standard grade rubbered surface, complete with nails and cement, costs per square as follows in New York, St. Louis, Chicago and San Francisco:

	1-Ply c.l.	1-Ply l.c.l.	2-Ply c.l.	2-Ply l.c.l.	3-Ply c.l.	3-Ply l.c.l.
No. 1 grade	$1.35	$1.60	$1.70	$1.95	$2.05	$2.30
No. 2 grade	1.20	1.45	1.50	1.75	1.80	2.05

Asbestos asphalt-saturated felt (14 lb. per square) costs $5.00 per 100 lb.

Slate-surfaced roofing (red and green) in rolls of 108 sq.ft. costs $2.10 per roll in carload lots and $2.35 for smaller quantities.

Shingles, red and green, slate finish, cost $5.50 per square in carloads, $5.75 in smaller quantities, in Philadelphia.

ROOFING MATERIALS—Prices per ton f.o.b. New York and Chicago:

	Carload Lots		Less Than Carload Lots	
	N. Y.	Chicago	N. Y.	Chicago
Tar felt (14 lb. per square of 100 sq. ft.)	$54.00	$52.00	$55.00	$53.00
Tar pitch (in 400-lb. bbl.)	21.00	18.00	22.00	19.00
Asphalt pitch (in barrels)	36.00	36.00	41.50	41.50
Asphalt felt	67.50	67.50	72.00	72.00

SHEETS—Quotations are in cents per pound in various cities from warehouse, also the base quotations from mill:

Blue Annealed	Large Mill Lots Pittsburgh	St. Louis	Chicago	San Francisco	New York Current	New York One Yr. Ago
No. 10	3.90	5.04	6.50	6.50	5.17	5.45
No. 12	3.95	5.09	6.55	6.55	5.22	5.50
No. 14	4.00	5.14	6.60	6.60	5.27	5.55
Black						
Nos. 18 and 20	4.50	5.84	6.02	7.30	6.02	6.25
Nos. 22 and 24	4.55	5.89	6.07	7.35	6.07	6.30
No. 26	4.60	5.94	6.12	7.40	6.12	6.40
No. 28	4.70	6.04	6.12	7.50	6.27	6.45
Galvanized						
No. 10	5.05	6.39	6.57	....	6.57	6.70
No. 12	5.15	6.39	6.67	7.85	6.62	6.80
No. 14	5.15	6.39	6.67	8.00	6.67	6.80
Nos. 18 and 20	5.45	6.59	6.97	8.15	6.97	7.10
Nos. 22 and 24	5.60	6.44	7.12	8.30	7.12	7.25
No. 26	5.75	6.74	7.27	8.45	7.27	7.40
No. 28	6.05	7.19	7.57	8.75	7.57	7.70

LINSEED OIL—These prices are per gallon:

	New York Current	New York One Year Ago	Cleveland Current	Cleveland One Year Ago	Chicago Current	Chicago One Year Ago
Raw in barrel	$1.50	$1.39	$1.65	$1.40	$1.66	$1.41
5-gal. cans	1.65	1.49	1.80	1.50	1.88	1.51

WHITE AND RED LEAD in 500-lb. lots sell as follows in cents per pound:

	Red Current		Red 1 Year Ago		White Current	White 1 Yr. Ago
	Dry	In Oil	Dry	In Oil	Dry and In Oil	Dry and In Oil
100-lb. keg	13.00	14.50	11.25	11.00	13.00	11.00
25 and 50-lb. kegs	13.25	14.75	11.50	11.25	13.25	11.25
12½-lb. keg	13.50	15.00	11.75	11.50	13.50	11.50
5-lb. cans	15.00	16.50	13.25	13.00	15.00	13.00
1-lb. cans	16.00	17.50	13.25	13.00	16.00	13.00

500 lb. lots less 10% discount; 2000 lb. lots less 10–2½% discount.

LUMBER

San Francisco—Prices of rough Douglas fir, No. 1 common, in more than carload lots:

	Lumber Prices in Yards at San Francisco 6-8-12 and 14 Ft.	10-16-18 and 20 Ft.	22 and 24 Ft.	25 to 32 Ft.
3x3 and 4	$26.00	$26.50	$27.50	$29.50
3x6 and 8	27.00	27.50	28.50	30.50
4x4-6 and 8	28.50	29.50	30.50	32.50
3x10 and 12	27.50	28.50	29.50	31.50
3x14	28.00	29.00	30.00	32.00
4x10 and 12	28.50	29.50	30.50	32.50
4x14	29.50	30.50	31.50	33.50

	24 Ft. and Under	25 to 32 Ft.	33 to 40 Ft.
6x10	$28.50	$30.50	$31.50
6x14	30.00	32.00	33.00
8x10	31.50	33.50	34.50
8x14	33.00	35.00	36.00

New York, Chicago and St. Louis

	Southern Pine New York* 20-24 Ft.	New York* 34 Ft. and Under	Chicago 20 Ft. and Under	Chicago 22-24 Ft.	Yellow Pine St. Louis 20 Ft. and Under	St. Louis 22-24 Ft.
3x 4 to 8x 8	$40.50	$46.50	$45.00	$46.00	$35.00	$37.00
3x10 to 10x10	44.00	50.00	48.00	49.00	38.50	40.00
3x12 to 12x12	46.00	52.00	50.00	51.00	40.00	41.50
3x14 to 14x14	51.00	57.00	55.00	56.00	45.00	47.00
3x16 to 16x16	57.00	63.00	60.00	61.00	48.00	50.00
3x18 to 18x18	62.00	68.00	64.00	65.00	52.00	53.50
4x20 to 20x20	65.00	71.00	70.00	71.00	....	....

* From Lumbermen's Bureau.

Over 24 ft.—Add $1 for each additional 2 ft. in length up to 40 ft. for sizes 12 x 12 and under; for sizes over 12 x 12 add $2. For merchantable add $2 to sizes 10 x 10 and under. For prime add $2 to the price of merchantable for all sizes.

Other Cities

	8 x 8-In. x 20-Ft. and Under P.	Fir	Hemlock	Spruce	12 x 12-In. 20 Ft. and Under P.	Fir
Boston	$46.50	$45.00	$45.00	$46.00	$52.00	$46.00
Cincinnati	37.00	....	36.00	....	41.00	40.00
Kansas City	40.50	41.50	41.50	39.50	45.50	43.50
Seattle	17.50	17.50	17.50	17.50	17.50	17.50
New Orleans	48.00	....	....	....	50.00	....
St. Paul	....	50.00	46.00	46.00	....	53.00
Denver	44.00	34.50	34.50	....	49.00	39.00
Atlanta	38.00	....	....	....	45.00	....

	1-In. Rough, 10 In. x 16 Ft. and Under P.	Fir	Hemlock	2-In. T. and Gr. 10 In. x 16 Ft. P.	Fir
Boston	$50.00	....	$40.00	$45.00	$48.50
Cincinnati	43.00	....	39.00	42.00	38.00
Kansas City	50.00	$55.75	55.75	53.50	61.00
Seattle	17.50	17.50	17.50	17.50	17.50
New Orleans	54.00	....	....	60.00	....
St. Paul	50.50	40.00	....	....	44.50
Denver	45.00	33.50	33.50	38.00	30.00
Atlanta	28.80	....	....	30.50	....

Dallas—Yellow Pine:

2x4 to 2x12—12, 14 and 16	$38.80
2x4 to 2x12—10, 18 and 20	40.90
2x4 to 2x12—22 and 24	43.20
4x4, 4x6, 6x6, 8x8 and 3x8	46.25
8x10, 10x10 and 3x10	52.00
12x12 and 3x12	54.25

NAILS—The following quotations are per keg from warehouse:

	Mill Pittsburgh	St. Louis	Chicago	San Francisco	Dallas
Wire	$3.50	$4.37	$4.37	$5....	$4.75
Cut	5.00	6.50	6.50	5.75	....

MISCELLANEOUS

FREIGHT RATES—On finished steel products in the Pittsburgh district, including plates, structural shapes, merchant steel, bars, pipe fittings, plain and galvanized wire nails, rivets, spikes, bolts, flat sheets (except planished), etc., the following freight rates are effective in cents per 100 lb.:

Boston	$0.30	New Orleans	$0.38½
Buffalo	.17	New York	.27
Chicago	.27	Pacific Coast (all rail)	1.25*
Cincinnati	.23	Philadelphia	.24½
Cleveland	.17	St. Louis	.24
Denver	.99	St. Paul	.49½
Kansas City	.59		

Note—Add 3% transportation tax. * Minimum carload, 80,800 lb.

WATER TREATMENT CHEMICALS—Prices per pound are as follows:

	New York	Chicago
Sulphate of alumina (iron free), in 400-lb. bbl.	$0.0½	None
Hypochlorite of lime (bleaching powder), in 700-lb. drums	.01½–.02½	0.05½
Soda ash, in 400-lb. bbl.	.03½	.03½
Liquid chlorine in 100-lb. cylinders Lime is quoted separately	.10–.12	.12

Contractors' Miscellaneous Supplies

STEEL SHEET PILING—The following price is base per 100 lb. f.o.b. Pittsburgh, with a comparison of a month and a year ago:

Current	One Month Ago	One Year Ago
$3.50	$4 to $5	$4 to $5

WIRE ROPE—Discounts from list price on regular grades of bright and galvanized are as follows:

	New York and St. Louis
Galvanized iron rigging	+17½%
Galvanized cast steel rigging	21%
Bright plow steel	30%
Bright cast steel	17½%
Bright iron and iron tiller	List

San Francisco: Galvanized, +5%; bright, 12½% off.
Chicago: Galv., +20%; bright, 20% off.

MANILA ROPE—For rope smaller than ½-in. the price is ½ to 2c. extra; while for quantities amounting to less than 600 ft. there is an extra charge of 1c. The number of feet per pound for the various sizes is as follows: ½-in., 8 ft.; ⅝-in., 6; ¾-in., 4½; 1-in., 3½; 1¼-in., 2 ft. 10 in.; 1½-in., 2 ft. 4 in. Following is price per pound for ½-in. and larger, in 1200-ft. coils:

Boston	$0.32	Atlanta	$0.34
New York	.30½	Denver	.32
Cincinnati	.33	Kansas City	.32½
Chicago	.30½	New Orleans	.31½
St. Paul	.32	Seattle	.24
San Francisco	.29	St. Louis	.21½

EXPLOSIVES—Price per pound of dynamite in small lots and price per 25 lb. keg for black powder.

	Low Freezing 20%	Gelatin 40%	Gelatin 60%	Gelatin 80%	Black Powder
New York	....	$0.29½	$0.34½	$0....	$2.40
Boston	$0.22½	.26½	.31½	.37½	2.40
Cincinnati	.18½	.22½	.26½	....	2.35
Kansas City	.20½	.25½	.30½	.38½	2.45
New Orleans	.20½	.26½	.31½	.37½	2.60
Seattle	.14½	.20½	.25½	.31½	1.90
Chicago	.18½	.22½	.30	.36	2.35
St. Paul	.19	.25½	.30½	....	2.45
St. Louis	.19	.25½	.30½	.36½	....
Denver	.17½	.24	.29	.35	2.45
Dallas	.25	.31	.36	.42	....

POLES—Price of Western red cedar poles is as follows:

	New York Current	New York One Year Ago	Chicago	St. Louis	Denver
6-in. x 30-ft.	$5.82	$5.66	$5.17	$4.55	$5.17
7-in. x 30-ft.	7.65	7.45	6.85	6.10	6.85
7-in. x 35-ft.	11.10	10.80	10.00	8.95	10.00
8-in. x 30-ft.	12.65	12.30	11.35	10.10	11.35
7-in. x 40-ft.	12.85	12.50	11.50	10.20	11.50
8-in. x 45-ft.	18.90	18.40	16.90	15.00	16.90
8-in. x 50-ft.	22.65	22.05	20.30	18.00	20.30

10c. higher freight rates on account of double loads.

For plain pine poles, delivered New York, the price is as follows:

10-in. butts, 5-in. tops, length 20-30 ft.	$9.00
12-in. butts, 6-in. tops, length 30-40 ft.	11.50
12-in. butts, 6-in. tops, length 41-50 ft.	12.50
14-in. butts, 6-in. tops, length 51-60 ft.	21.00
14-in. butts, 6-in. tops, length 61-71 ft.	23.50

	Dallas
6-in. x 20-ft.	$3.00
6-in. x 30-ft.	5.00
8-in. x 30-ft.	7.50
8-in. x 35-ft.	7.50

OLD MATERIAL—The prices following are per gross ton paid to dealers and producers in New York. In Chicago and St. Louis the quotations are per net ton and cover delivery at the buyer's works, including freight transfer charges:

	New York	Chicago	St. Louis
No. 1 railroad wrought	$17.00–18.00	$15.00	$17.00
Stove plate	15.00–17.00	15.00	16.00
No. 1 machinery cast	22.00–24.00	20.00	20.00
Machine shop turnings	6.50–7.50	6.00	7.00
Cast borings	9.50–10.50	7.00	10.50
Railroad malleable cast	13.50–14.50	15.50	17.00

SHIP SPIKES—Current prices per 100 lb.

In.	San Francisco Galv.	San Francisco Black	Seattle Black
½	$10.50	$8.50	$8.55
⅝	9.85	7.85	8.25
¾	9.70	7.70	8.30

Pittsburgh base, $5. per 100 lb.

PROPOSALS

For Proposals Advertised See Pages 79-83 inclusive

WATER-WORKS

Bids Close		See Eng. News-Record
Mar. 10	Junction City, Kan.	Feb. 27
Mar. 10	Underwood, N. D.	Feb. 27
Mar. 11	Baxter Springs, Kan.	Mar. 6
Mar. 18	Wyandotte, Mich.	Feb. 20
Mar. 19	Hartford, Conn. Adv. Feb. 27 and Mar. 6.	Mar. 6
Mar. 20	Milwaukee, Wis. Adv. Mar. 6.	Mar. 6
Mar. 24	Minot, N. D.	Mar. 6
Mar. 25	Jersey City, N. J. Adv. Feb. 27 and Mar. 6.	Feb. 20

SEWERS

Mar. 10	Durham, N. C. Adv. Feb. 27 and Mar. 6.	Feb. 27
Mar. 10	Underwood, N. D.	Feb. 27
Mar. 14	Trenton, N. J.	Feb. 27
Mar. 19	Greenfield, Ind.	Mar. 6
Mar. 21	Granite City, Ill. Adv. Mar. 6.	Mar. 6
Apr. 1	Harrison, N. J.	Mar. 6
Apr. 1	Newark, N. J.	Mar. 6

BRIDGES

Mar. 10	Walkerton, Ont.	Feb. 27
Mar. 11	Falls, Pa.	Feb. 27
Mar. 15	Charleston, Miss.	Feb. 27
Mar. 15	Montreal, Que.	Feb. 27
Mar. 17	Stuart, Va.	Mar. 6
Mar. 17	Minot, N. D.	Mar. 6
Mar. 18	Knoxville, Tenn. Adv. Mar. 6.	Mar. 6
Mar. 19	Visalia, Cal.	Mar. 6
Mar. 20	Springfield, Mass. Adv. Feb. 27.	Feb. 27
Mar. 23	Buckhannon, W. Va.	Feb. 13
Mar. 24	Middlebourne, W. Va.	Mar. 6
Mar. 27	Janeville, Wis. Adv. Mar. 6.	Mar. 6
Apr. 16	Ottawa, Ont.	Feb. 20

STREETS AND ROADS

Mar. 8	Louisa, Va.	Mar. 6
Mar. 8	Wauseon, O.	Mar. 6
Mar. 10	Olathe, Kan.	Mar. 6
Mar. 10	Lafayetteville, W. Va. Adv. Feb. 27.	Feb. 27
Mar. 10	Mt. Vernon, O. Adv. Feb. 20 and 27.	Feb. 27
Mar. 10	Indiana	Feb. 27
Mar. 10	Salem, N. J. Adv. Feb. 20 to Mar. 6.	Feb. 27
Mar. 10	Clifton, Ariz.	Feb. 27
Mar. 10	Selma, Ala.	Feb. 27
Mar. 10	New Iberia, La.	Feb. 20
Mar. 10	Bridgeton, N. J.	Mar. 6
Mar. 10	Mason, Tex.	Mar. 6
Mar. 10	Long Island City, N. Y.	Mar. 6
Mar. 11	Maryland	Mar. 6
Mar. 11	Eutaw, Ala.	Feb. 27
Mar. 11	Wichita, Kan.	Mar. 6
Mar. 11	Pascagoula, Miss.	Mar. 6
Mar. 11	Brighton (Boston P. O.)	Mar. 6
Mar. 11	Buffalo, N. Y.	Feb. 27
Mar. 11	Michigan	Feb. 27
Mar. 11	Grand Rapids, Mich.	Mar. 6
Mar. 12	Baltimore, Md. Adv. Feb. 27.	Feb. 27
Mar. 12	Ivanhoe, Minn.	Mar. 6
Mar. 12	Thiboudaux, La.	Mar. 6
Mar. 15	Atlanta, Ga.	Feb. 27
Mar. 15	Yazoo, Miss.	Mar. 6
Mar. 17	Washington	Mar. 6
Mar. 17	Riverside, Cal.	Feb. 27
Mar. 17	Tuscumbia, Ala.	Mar. 6
Mar. 17	Tunica, Miss.	Mar. 6
Mar. 17	Steubenville, O.	Mar. 6
Mar. 18	Dravosburg, Pa.	Mar. 6
Mar. 18	Kansas City, Mo. Adv. Feb. 27 and Mar. 6.	Feb. 27
Mar. 18	Santa Ana, Cal.	Feb. 27
Mar. 18	St. Louis, Mo.	Feb. 27
Mar. 18	Kansas City, Mo.	Feb. 27
Mar. 18	St. Louis, Mo.	Feb. 20
Mar. 18	St. Cloud, Minn.	Mar. 6
Mar. 20	Logan, Ia. Adv. Mar. 6.	Mar. 6
Mar. 20	Philippi, W. Va. Adv. Feb. 27 and Mar. 6	Mar. 6
Mar. 20	Edgerton, Wis.	Mar. 6
Mar. 20	Williston, N. D.	Mar. 6
Mar. 20	Pennsylvania Adv. Feb. 27 and Mar. 6.	Mar. 6
Mar. 22	Oregon	Feb. 27
Mar. 24	Rugby, N. D.	Mar. 6
Mar. 25	Bottineau, N. D.	Mar. 6
Mar. 26	Fairmont, W. Va. Adv. Mar. 6.	Mar. 6
Mar. 26	Delaware, N. J.	Mar. 6
Mar. 27	Devils Lake, N. D.	Mar. 6
Mar. 27	Center City, Minn.	Mar. 6
Mar. 28	Dayton, O.	Mar. 6
Mar. 28	Pennsylvania Adv. Mar. 6.	Mar. 6
Mar. 31	Lockport, N. Y.	Feb. 6
Mar. 31	Ottawa, Ont.	Feb. 27
Apr. 7	Moulton, Ala.	Feb. 20

EXCAVATION AND DREDGING

Mar. 10	Waseca, Minn.	Feb. 27
Mar. 11	Harrisburg, Ark.	Feb. 27
Mar. 11	Rochester, N. Y. Adv. Feb. 13 to Mar. 6.	Feb. 20
Mar. 13	Tyler, Minn.	Feb. 6
Mar. 18	El Centro, Cal.	Mar. 6
Mar. 19	Carthage, Ill.	Feb. 20
Mar. 19	Quincy, Ill.	Feb. 20
Mar. 20	Osceola, Ark.	Feb. 27
Apr. 4	Whiteside, Ill. Adv. Mar. 6.	Mar. 6
Apr. 8	Hollandale, Miss.	Feb. 13

INDUSTRIAL WORKS

Mar. 10	Hibbing, Minn.	Feb. 27
Mar. 10	Albany, N. Y.	Mar. 6
Mar. 10	Lake Edward, N. B.	Mar. 6
Mar. 14	New York, N. Y.	Mar. 6
Mar. 19	Brooklyn, N. Y.	Feb. 20
Mar. 20	La Crosse, Wis.	Feb. 20
Mar. 20	Macon, Mo. Adv. Mar. 6.	Mar. 6
Mar. 21	Philadelphia, Pa.	Mar. 6
Mar. 25	Charleston, S. C.	Mar. 6
Mar. 31	Orillia, Ont.	Mar. 6
Apr. 1	Sioux City, Ia.	Jan. 16

BUILDINGS

Mar. 10	Chicago, Ill.	Feb. 27
Mar. 10	Kenmore, Ohio	Mar. 6
Mar. 13	Kingston, Ont.	Mar. 6
Mar. 14	Humboldt, Ariz.	Feb. 20
Mar. 14	Dallas, Tex.	Feb. 20
Mar. 14	Palmerton, Pa.	Mar. 6
Mar. 14	St. Agathe, Que.	Mar. 6
Mar. 14	Pittsburgh, Pa.	Mar. 6
Mar. 15	Albany, N. Y. Adv. Mar. 6.	Mar. 6
Mar. 15	Hamilton, Ont.	Mar. 6
Mar. 15	Dallas, Tex.	Mar. 6
Mar. 15	Baton Rouge, La.	Feb. 27
Mar. 15	Levis, Que.	Mar. 6
Mar. 15	Culver, Ind.	Dec. 26
Mar. 15	Duluth, Minn.	Feb. 13
Mar. 15	Calgary, Alta.	Mar. 6
Mar. 17	Johnstown, Pa.	Feb. 20
Mar. 17	Brooklyn, N. Y.	Mar. 6
Mar. 18	Esquimalt, B. C.	Feb. 20
Mar. 19	Kingston, Ont.	Mar. 6
Mar. 20	Ottawa, Ont.	Mar. 6
Mar. 25	Bath, N. Y.	Feb. 27
Mar. 27	West Point, N. Y. Adv. Mar. 6.	Mar. 6
Mar. 28	West Unity, O.	Feb. 27
Mar. 31	Ottawa, Ont.	Mar. 6
Apr. 2	Lansing, Mich.	Mar. 6
Apr. 2	New York, N. Y.	Jan. 23
Apr. 10	Newaygo, Mich.	Feb. 6
Apr. 15	Newark, N. J.	Feb. 6

FEDERAL GOVERNMENT WORK

Mar. 10	Condensers—Spec. 3797—Washington, D. C.	Feb. 27
Mar. 11	Dredging — Philadelphia, Pa. Adv. Feb. 6 to Mar. 6.	Feb. 13
Mar. 12	Enlarging Levees — St. Louis, Mo. Adv. Feb. 13 to Mar. 6.	Feb. 20
Mar. 12	Boathouse, etc.—Charlotte, N. Y. Adv. Feb. 13 and 20.	Feb. 20
Mar. 14	Hoistway, etc. — Easton, Pa. Adv. Feb. 27.	Feb. 27
Mar. 15	Dredging, etc.—Nome, Alaska Adv. Feb. 27.	Feb. 27
Mar. 17	Wooden Pier and Approach — Spec. 3820 — Yorktown, Va.	Feb. 27
Mar. 17	Building—Spec. 3760—Annapolis, Md.	Feb. 27
Mar. 17	Fuse and Primer House—Spec. 3737—Bellevue, D. C.	Mar. 6
Mar. 17	Cranes—Spec. 3770—Philadelphia, Pa.	Mar. 6
Mar. 17	Incinerator—Spec. 3790—Indianhead, Md.	Mar. 6
Mar. 19	Post Office, etc., Woodward, Okla.	Feb. 20
Mar. 21	Post Office, Akron, O.	Mar. 6
Mar. 24	Dredging — Wilmington, Del. Adv. Feb. 27 and Mar. 6.	Feb. 27
Mar. 24	Valve Operating Machinery —Wheeling, W. Va. Adv. Feb. 27 and Mar. 6	Mar. 6
Mar. 24	Boatshead—Spec. 3472—Pensacola, Fla.	Mar. 6
Mar. 25	Remodeling Post Office, etc. —Providence, R. I.	Feb. 27
Mar. 26	Drainage—St. Louis, Mo. Adv. Feb. 27 and Mar. 6	Mar. 6
Mar. 29	Lock and Abutment-Greenup, Ky. Adv. Mar. 6.	Mar. 6
Mar. 31	Coal—Memphis, Tenn. Adv. Feb. 27 and Mar. 6.	Feb. 27
Mar. 31	Drdeging—Wilmington, Del. Adv. Mar. 6.	Mar. 6
Apr. 2	Post Office—Honey Grove, Tex.	Mar. 6
Apr. 4	Post Office—Eldorado, Kan.	Mar. 6
Apr. 4	Bear Trap Leaves—Cincinnati, O. Adv. Mar. 6.	Mar. 6
Apr. 15	Pumps, etc.—Omaha, Neb. Adv. Feb. 27 and Mar. 6	Mar. 6

MISCELLANEOUS

Mar. 10	Elevated Roadway — Portland, Ore.	Feb. 27
Mar. 11	Miscellaneous Supplies — Newark, N. J.	Feb. 27
Mar. 14	Electric Fixtures—Hudson, N. Y.	Feb. 27
Mar. 14	Radial Chimney — Sarnia, Ont.	Feb. 27
Mar. 18	Miscellaneous Supplies—Albany, N. Y.	Mar. 6
Mar. 20	Subway, Foundation, etc.—St. Boniface, Man.	Mar. 6

Where name of official is not given, inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

PROPOSED WORK

N. Y., Middleport—City election Mar. 18, to vote on $20,000 bonds to improve water supply. Plans include installation of filtration plant and equipment, using water from Barge Canal.

N. Y., Watertown—City will petition State Legislature, Capitol, Albany, to make surveys and prepare plans for building impounding dams on Black and Beaver Rivers for water storage.

N. J., Bound Brook—Elizabethtown Water Co., 68 Broad St., Elizabeth, having plans prepared by M. Sherrerd, archt., 68 Broad St., Elizabeth, for pumping station and filter house near Milltown here.

Pa., Kutztown—Boro. voted $15,000 bonds to improve waterworks plant.

Md., Baltimore—City plans to install 30, 36 and 48 in. suction mains to improve operating conditions in Mt. Royal Pumping Sta., cost, $30,000; install about 20 mi. water mains, various sizes, and install house connections in advance of improved paving, $100,000; erect 30,000,000 gal. centrifugal pump, driven by steam turbine having waterworks condenser, $75,000; also prepare plans for new filtration plant, 120,000,000 gal. per day capacity as addition to existing filtration plant at Lake Montebello and probable erection of experimental filters for comparing efficiency of mixing coagulents at Montebello filters. W. E. Lee, city water engr.

Fla., Winter Garden—City plans to hold election to vote on from $30,000 to $35,000 bonds to build complete water supply system, consisting of elevated steel tank with capacity of 50,000 gals., oil pumping engines, brick pumping station and 16,000 ft. 2-8 in. c. i. pipe. W. Ginn, Sanford, engr.

Ala., Union Springs—City voted $16,000 bonds to improve waterworks system.

Waterworks (Continued)

La., Arcadia—City having plans prepared for building water-works system. About $50,000. X. A. Kramer, Magnolia, Miss., engr.

La., Kaplan—Town having plans prepared for water-works and electric light plant. About $40,000. X. A. Kramer, Magnolia, Miss., engr.

La., Marksville—City having plans prepared for water-works system. About $40,000. X. A. Kramer, Magnolia, Miss., engr.

La., Slidell—City having plans prepared for building water-works system. About $75,000. X. A. Kramer, Magnolia, Miss., engr.

La., Winnsboro—See "Sewers."

O., Elyria—City election Apr. 30, to vote on $1,000,000 bond issue to improve waterworks. C. M. Theobald, city engr.

O., Silver Lake—(Bellefontaine P. O.)—Village plans election Mar. 11, to vote on $25,000 bonds to build waterworks system. E. A. Tewksbury, clk.

Minn., Albert Lea—City receives bids about Mar. 25 building 1,500,000 gal. reservoir and 75,000 gal. pressure tank, 50 ft. high. About $50,000. J. H. A. Brahtz, Civic and Commerce Bldg., St. Paul, engr.

Kan., Claflin—City plans to install waterworks system.

Kan., Lawrence—City having surveys made by Black & Veatch, engrs., 400 Interstate Bldg., Kansas City, Mo., for new waterworks system.

Kan., Lyons—City plans to extend waterwork system and install pumps in 2 new wells.

Kan., Parsons—City plans to build new waterworks system. W. J. Kutz, city engr.

Neb., Oshkosh—City plans election to vote on $45,000 bonds to improve waterworks and sewerage systems.

Neb., Scottsbluff—City plans to extend waterworks, to include tank and tower. About $25,000. J. W. Bly, city clk.

Mont., Polson—City election Apr. 7, to vote on $15,000 bonds to extend water mains in additions south of G St. F. F. Faucett, Polson, engr.

Mont., Plattsburg—City having plans and estimates prepared by E. E. Harper, engr., Kansas City, for improving waterworks system. Election soon to vote on bonds for project.

Tex., Ranger—City plans to build distilled water plant. About $10,000. W. M. Powell, mgr.

Tex., Waxahachie—See "Streets and Roads."

Okla., Muskogee—City voted $130,000 bonds to improve waterworks system. H. H. White, city engr.

Wash., Seattle—City instructed Bd. Pub. Wks. to proceed with development of Swan Lake water supply system. About $750,000 available for project. Plans include construction of large impounding reservoir at Swan Lake, additional pipe line to city and additional storage reservoir at Volunteer Park. Noted July 25.

Wash., Walla Walla—City plans to build reservoir to improve waterworks system. About $100,000. W. Rehorn, city engr.

Cal., Melones—Oakdale Irrigation Dist., Oakdale, having surveys and preliminary estimates prepared by C. H. Nickerson, engr., Oakdale, for reservoir and dam to impound 100,000 acre feet of water. About $1,000,000. H. Crowe, Oakdale, dir.

Que., Three Rivers—City plans to issue $150,000 debentures to improve waterworks system. L. Lambert, City Hall, engr.

Ont., Oshawa—Council passed by-law to build water-works system. About $250,000. M. Mason, Oshawa, engr.

Ont., Timmins—Town receives bids in spring for extending waterworks system.

BIDS DESIRED

Conn., Hartford—Until Mar. 19, by Comrs. Water Bd., building slow sand filtration plant to include two 26 x 65 ft. regulator houses and 40 x 40 ft. laboratory. Work involves 8½ acres filter beds, concrete groined arch roofs and floors, aerator 5.0 ft. diam. by 7.0 ft. deep, connecting pipe lines, 40,000 cu.yd. excav. and 16,000 cu.yd. concrete. C. M. Saville, 1026 Main St., engr. and ch. engr.; advertised in this issue.

Wis., Milwaukee—Until Mar. 20, by Dept. Pub Wks., building water pipe tunnel under Menomonee River, West Water St. to Reed St. and 2 shafts; also laying connecting water pipe line. Work involves 181 lin.ft. steel encased concrete shafts, 10 ft. internal diameter, 268 lin.ft. rein.-con. lined tunnel under bed of Menomonee River, 7 x 9 ft. internal dimensions, placing 440 lin.ft. 24 in. c.i. water pipe in shafts and tunnel, 765 lin.ft. 20-24 in. c.i. water pipe laid in trenches from shafts to connecting water mains in Reed and 3rd Sts.; advertised in this issue.

Kan., Baxer Springs—Until Mar. 11, by city, for (1) furnishing and erecting machinery and pumping equipment for one or more units; (2) constructing power house, oil house and concrete work; (3) erecting tower and tank of 100,000 gal. capacity, not more than 125 ft. high. Separate bids will be received on 3 sections.

N. D., Minot—Until Mar. 24, by City Comrs. building 3,000,000 gal. rein.-con. supply reservoir. F. Bass, 244 Plymouth Bldg., Minneapolis, Minn., engr.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Md., Brunswick**—City let contract building gravity water supply system including trenching, building river crossing, etc., to H. C. Brooks & Co., Martinsburg, W. Va., $79,837. Work involves furnishing and placing 26,400 ft. 4-10 in. wood stave pipe and 8-10 in c.i. pipe. Noted Feb. 13.

★**W. Va., Clarksburg**—Water Bd. let contract building addition of 3,000,000 gal. daily capacity to existing mechanical filtration plant, to Amer. Water Softener Co., 1011 Chestnut St., Phila. Noted Jan. 30.

★**O., Akron**—H. S. Morse, dir. pub. serv., Delaware Bldg., let contract furnishing 400 tons 6-16 in. Class "C" pipe, 170 tons 6-12 in. Class "B" pipe and 15 tons special castings, to Hardware Supply Co., Hower Bldg. About $36,837. Noted Feb. 6.

Okla., Wewoka—City received bids Feb. 19 for building extension to waterworks system, from N. S. Sherman Iron Wks., 18-32 East Main St., Oklahoma, $116,360. Noted Feb. 13.

★**Cal., Redlands**—Yucaipa Water Co. No. 1, let contract lining reservoir, involving 124,000 sq.ft. 4 in. concrete, to G. A. Abrahamson, Redlands. Owner will furnish cement.

Que., Montreal—City received bids building concrete conduit necessary to increase water supply from aqueduct by 20,000,000 gals. daily, from Atlas Constr. Co., 37 Belmont St., $53,300; Laurin & Leitch, 367 Beaver Hall Sq., $58,000; J. Quinlan & Co., 1165 Greene Ave., $62,600.

Sewers

PROPOSED WORK

N. Y., Buffalo—City soon receives bids building 2 mi. Sloans Drain. About $300,000. Plans include building 6-8 ft. trunk sewer for flood relief, brick, segment block or rein.-con. pipe. G. H. Norton, city engr. Noted Dec. 5.

N. Y., Rochester—City plans to improve Clifford Ave. Dist. sanitary and storm sewer, $90,000; Chili Ave. outlet sewer $18,700. A. C. Poole, city engr.

N. Y., Schenectady—Bd. Contract soon lets contract building storm sewer in Erie Canal Bed from Union St., southerly. L. B. Sebring, city engr.

N. Y., Watertown—City petitioned to build new sanitary sewer in Sherman St. and extend Holcomb St. sewer; latter would necessitate extension to Western Outfall sewer. About $17,000. E. W. Sayles, city engr.

N. J., Dover—City election Mar. 11, to vote on $45,000 bonds to install sewerage system. C. Potts, Morristown, engr.

Pa., Ellwood City—City plans to issue $18,000 bonds to build sewers in various streets.

La., Winnsboro—City having plans prepared building sewerage and waterworks system. About $80,000. X. A. Kramer, Magnolia, Miss., engr. Noted Sept. 5.

O., Columbus—City plans to build sewer in 11th Ave. from Cleveland to St. Clair Aves. H. Maetzel, city engr.

O., Silver Lake—(Bellefontaine P. O.)—Village election Mar. 11, to vote on $26,000 bond issue to build sewage disposal plant. E. A. Tewksbury, clk.

Ill., Batavia—City plans to build east side sewerage system. About $140,000.

Wis., North Milwaukee—Village voted $100,000 bonds to build sewers. H. C. Webster, 490 Morse Ave., Milwaukee, engr.

Neb., Geneva—City receives bids about May building sanitary sewerage system. Bonds for $35,000 voted for project. Grant & Fulton, 505 Bankers Life Bldg., Lincoln, engrs.

Neb., Lincoln—City election Apr. 8, to vote on $100,000 bonds to build 4½ mi. collecting and intercepting sewer and unit of disposal plant. A. Dobson, 945 D St., Lincoln, engr.

Neb., Oshkosh—See "Waterworks."

Tex., Waxahachie—See "Streets and Roads."

Colo., Denver—City plans to enlarge 16th St. sewer from Lawrence to Welton Sts., present 15 in. pipe to be replaced with 1900 ft. 18-24 in. vitr. pipe. J. B. Hunter, city engr.

Ariz., Holbrook—City plans to build sewerage and water systems. About $100,000. Olmsted & Gillelen, 1112 Hollingsworth Bldg., Los Angeles, Cal., engrs.

Cal., San Diego—Olmsted & Gillelen, engrs., 1112 Hollingswood Bldg., Los Angeles, submitted report on sewage disposal plant for city. Plans include intercepting sewer, cost, $320,000; small pumping stations, $32,500; screening plant, $225,000; screen at 32nd St. plant, $25,000; pumps at 32nd St. plant, $4000. Total cost, $606,500. A. H. Wright, city clk.

Que., Levis—City plans to issue $29,000 debentures to build sewerage and waterworks systems in Villemay Wards.

Que., Montmagny—City plans to issue $100,000 debentures to improve and extend sewerage system.

Ont., Brantford—City plans to build sewers in various streets. About $185,000.

BIDS DESIRED

N. J., Harrison—Until Apr. 1, by Passaic Valley Sewerage Comn., 820 Essex Bldg., Newark, building Sect. 27, South 4th St., of Kearny-Harrison-Newark Branch intercepting sewer, involving 2800 lin.ft. earth, rock, or earth and rock excav., 2500 cu.yd. concrete masonry, 100 cu.yd. brick masonry and 16,000 lb. steel. W. M. Brown, ch. engr.

N. J., Newark—Until Apr. 1, by Passaic Valley Sewerage Comn., 820 Essex Bldg., building Sect. 30 of Newark Branch Sewer, (a) tunnel method, involving 3310 lin.ft. earth, rock, or earth and rock excav., 3000 cu.yd. concrete masonry, 50 cu.yd. brick masonry, 27,000 lb. steel (b) open trench method, involving 3310 lin.ft. earth excav., 50 cu.yd. rock excav., 3100 cu.yd. concrete masonry, 100 cu.yd. brick masonry and 27,000 lb. steel. W. M. Brown, ch. engr.

Miss., Pascagoula—See "Streets and Roads."

Ind., Greenfield—Until Mar. 19, by city, building sanitary sewer in West Main St. C. Boone, city engr.

Ill., Granite City—Until Mar. 21, by Bd. Local Impvts., building 18,000 lin.ft. concrete sewer. E. Hall, 1st Natl. Bank Bldg., engr.; advertised in this issue.

Ia., Logan—See "Streets and Roads."

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Conn., Bridgeport**—City let contract building combined tile sewer in East Washington Ave., and Main St., to Dambrosio & Delbalzo Co., 84 Silver Lane, East Hartford, $13,950. Noted Feb. 13.

Pa., Pittsburgh—City received bids Feb. 30 laying sewers in (a) McCandless Ave. from east line of 53rd St. to existing sewer on McCandless St. at Celadine St., involving 628 ft. 15 in. terra cotta pipe, 3 manholes, 5 catch basins, (b) Reiter St., from Larimer Ave. to existing sewer on Hamilton Ave., 392 ft. 12 in. terra cotta pipe, (c) Pear Way and private properties to Saw Mill Run, 962 ft. 8-15 in terra cotta pipe, 17 manholes, from Manells Constr. Co., 1507 North Lang Ave., (a) $2617, (b) $1300; T. Cronin Co., 17th St., (a) $3571; F. and F. Dinlus, Boundary St., (a) $3562; Pittsburgh Paving Co., Bakewell Bldg., (b) $1295, (c) $17,994; M. Mannella (b) $1375; M. Ott & Co., Warrington Ave., (c) $14,433; G. S. White & Co., Jenkins Arcade, (c) $16,438.

★**Fla., St. Petersburg**—City let contract building two 1 story septic tank units and installing 15,410 ft. sanitary sewers in alleys between 9th and 10th Aves. N., 10th and 11th Aves. N, 11th and 12th Aves. N., and 12th to 13th Aves. N. from 4th St. N. to Bay.

Sewers (Continued)

to Southern Constr. Co., St. Petersburg, $21,395. Contract divided into 2 portions as follows: No. 1, 8750 ft. 8 in., vitr. pipe at $.86 per ft., 360 ft. 6 in., $.84 per ft., 26 manholes, $76 each and 2 flush tanks $90 each; portion No. 2, 6000 ft. 8 in. vitr. pipe, $.87 per ft., 300 ft. 6 in., $.80 per ft. and 27 manholes, $76 each.

★**Ala., Florence**—City let contract building 10 mi. sewers in various streets, to C. G. Kershaw, Woodward Bldg., Birmingham. About $100,000.

O., Columbus—City received bids building 2 mi. sewer in Franklin Park from Donnelly, McKeen & Sheets, $144,441, J. B. Sheets, $148,251, W. D. Winchell, $154,026; 9000 ft. in Grace St. alley west of Burgers St. to alley west of Hague St. from J. G. Clifford, $15,827, I. O. Jones, $14,911, J. B. Sheets, $16,359. Contractors all of Columbus. Noted Feb. 13.

O., Columbus—City received bids excavating and building Clintonville Main Trunk Sewer, Walhalla branch, ¾ mi. long, from I. O. Jones, $12,538; Ames Bros., $13,930; J. B. Sheets Co., $14,164. Contractors all of Columbus. Noted Feb. 13.

★**Mo., St. Louis**—Bd. Pub. Serv. let contract building sewer in Arloe Sewer Dist. No. 1 to G. G. Prendergast Constr. Co., Chemical Bldg., $52,522. Work involves 14,895 lin.ft. 8-33 in. c. i., or common brick pipe, 126,000 bricks, 14,360 cu.yd. earth trenching, 250 cu.yd. rock trenching, 50 manholes and 47 catchbasins; Arloe Sewer Dist. No. 2, to Bates & Martin, St. Louis, $10,000. Work involves 6055 lin.ft. 10-24 in. c. i., or common brick pipe, 36,000 bricks, 3400 cu.yd. earth trenching and 40 cu.yd. rock trenching. Noted Jan. 30.

★**Mo., St. Louis**—Bd. Pub. Serv. let contract building sewers and appurtenances in Oakland Ave., Sewer Dist. No. 2, to Bates & Martin, St. Louis, $15,028. Work involves 5715 lin.ft. 8-30 in. c. i., w. i. or common brick pipe, 53,000 bricks, 4830 cu.yd. earth trenching, 50 cu.yd. rock trenching, 28 manholes and 28 catch basins. Noted Jan. 30.

Bridges

PROPOSED WORK

N. Y., Watertown—City election in May to vote on $60,000 bonds for concrete bridge on Pearl St. and $125,000 bonds for concrete bridge at Diamond Island, both over Black River. E. W. Sayles, city engr. Noted Jan. 9.

N. J., Jersey City—Hudson Blvd. Comn. plans to repair Pennsylvania R.R. bridge over Hudson Co. Blvd. About $50,000. Plans include removing roadway, buckle plates, stringers, etc.

N. J., Jersey City—Hudson Co. Blvd. Comn. having plans prepared repairing Hudson Blvd. bridge over Newark and New York branch of Central R.R. of New Jersey. About $10,000.

N. J., Newark—Essex and Hudson Counties plan to build new bridge over Hackensack River from here to Bayonne. About $500,000.

Va., Stuart—Supervs. Patrick Co. having plans prepared for 4 bridges; cost, $80,000. Will also spend $40,000 to rebuild and repair existing structures.

Miss., McComb—City soon lets contract building steel or concrete approach to viaduct across Illinois Central R. R. About $14,000. X. A. Kramer, Magnolia, engr.

Mich., Ferrysburg—See "Spring Lake."

Mich., Spring Lake—State Highway Dept., Lansing, soon receives bids building 65 ft. trunnion lift bridge here, 20 ft. roadway and two 5 ft. walks, to connect with Ferrysburg. About $40,000. C. V. Dewart, bridge engr.

Wis., Manitowoc—City receives bids in April building 396.9 ft. bascule bridge on 10th St., consisting of 100 ft. draw, rein.-con. approaches, 24 ft. drive and 8 ft. walk. Klug & Smith, 69 Wisconsin St., Milwaukee, engrs. Noted Jan. 30.

Wis., Milwaukee—City voted $250,000 bonds to build bridge on Cedar St. G. Staal, city engr.

South Dakota—Pierre, "See Streets and Roads."

Colo., Denver—City soon receives bids building rein.-con. bridge over Cherry Creek on Logan St., involving 450 cu.yd. rein.-con., cost $30,000; rein.-con. bridge over Cherry Creek on Colfax Ave., involving 750 cu.yd. concrete, $30,000. J. B. Hunter, city engr.

Oregon—See "Streets and Roads."

Que., Waltham—Town plans to build bridge over Ottawa River to connect Lower Aliumette Island with mainland here. Federal and provincial governments will contribute toward cost. G. St. Michel, care Dept. Pub. Wks., Quebec, engr.

Ont., Spencerville—Spencerville Co. had plans prepared for steel bridge. About $10,000.

BIDS DESIRED

Va., Stuart—Until Mar. 17, by Patrick Co., building concrete bridge 67½ ft. long, 12 ft. wide, over Clarks Creek, Pedigos Mill, base to be of plain concrete, top of rein.-con.

W. Va., Middlebourne—Until Mar. 24, by Tyler Co., building 55 ft. rein.-con. arch bridge, 10 ft. rise, 16 ft. roadway, across Sugar Creek, Meadville Twp.; also bridge across Indian Creek, McElroy Dist., Alvy Twp. J. E. Smith, clk.

S. C., Orangeburg—See "Excavation and Dredging."

Tenn., Knoxville — Until Mar. 18, by Bd. Comrs., building rein.-con. viaduct over Southern Ry. tracks at Gay St. About $200,000. J. B. McCalla, city engr.; advertised in this issue.

Wis., Janesville — Until Mar. 27, by Bd. Pub. Wks., building rein.-con. bridge over Rock River on Jackson St. six 54 ft. spans, 55 ft. wide. C. L. Valentine, chn.; advertised in this issue. Noted Jan. 23.

N. D., Minot—Until Mar. 17, by Comrs. Ward Co. building 79 ft. timber bridge at Carpio Twp. and 48 ft. timber bridge at Donnybrook Twp.

Cal., Visalia—Until Mar. 19, by Bd. Supervs. Visalia Co. Twp.; building 2 concrete bridges between here and Dinuba Twp.; also 4 concrete bridges, 3 concrete culverts and 7 culvert wings between Porterville and Tipton Twps.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Kan., Topeka**—City let contract building 90 ft. rein.-con. bridge over Shunganunga Creek on 8th St., cantilevered sidewalks, 20 ft. roadway and 5 ft. sidewalks, also 109 ft. bridge over Shunganunga Creek, on 4th St., 20 ft. roadway, 5 ft. sidewalks, to N. T. Hopkins, $21,993 and $21,998 respectively. Noted Jan. 30.

★**Ark., Ft. Smith**—Comrs. Sebastian Bridge Dist. let contract building rein.-con. arch bridge and approaches over Arkansas River on Garrison Ave., to M. M. Elkan, Amer. Natl. Bank Bldg., Macon, Ga., about $500,000. Work involves 20,000 cu.yd. concrete, 1,550,000 lbs. rein.-steel, 8270 sq.yd. wood block or asphalt pavement, 25,000 miscellaneous metal and 22,000 cu.yd. earth embankment. Noted Jan. 2.

★**Cal., Eureka**—State Highway Comn., Forum Bldg., Sacramento, let contract building timber drawbridge 712 ft. long, 21 ft. wide, with concrete trestle approach including movable span, tower and fenders, complete, etc., over Eureka Slough, Humboldt Co., to Mercer-Fraser, Eureka, $61,-999. Noted Feb. 20.

Ont., Peterboro—City received bids building bridge over Otonabee River, here, from Canadian Eng. & Constr. Co., Peterboro, $337,338; I. O'Toole, Ottawa, $351,710; R. Sheehy, 751 George St., Peterboro, $381,-474. Noted Nov. 28.

Structural Steel

PROPOSED WORK

N. J., Newark—See "Buildings."

Reinforced Concrete

PROPOSED WORK

N. Y., Rochester—See "Industrial Works."

N. Y., Watertown—See "Bridges."

La., Shreveport—See "Buildings."

Wis., Milwaukee—See "Buildings."

B. C., Vancouver—See "Industrial Works."

BIDS DESIRED

Tenn., Knoxville—See "Bridges."

Va., Stuart—See "Bridges."

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Md., Baltimore**—See "Industrial Works."

★**Va., Petersburg**—See "Miscellaneous."

Streets and Roads

PROPOSED WORK

Mass., Pittsfield—City having plans and specifications made paving North St. from Burbank to Tyler Sts., South St. from Bank Row to West Housatonic St., Summer St. from North St. to Armory, Union St. from North to Northrup Sts., Hurlburt St. from Eason, Crane and Pike Plant to New West St., and Tyler St. from North to Myrtle Sts. About $80,000. A. B. Farnham, city engr.

Conn., New Britain—City appropriated $35,000 to pave various streets. W. H. Hall, city engr.

New York—Town Bds. Gouverneur, Edwards, Taleville, York and Fullerville petitioned State Highway Comn., Capitol, Albany, to complete Fullerville-Edwards State Highway, in St. Lawrence Co., bituminous macadam.

N. Y., Brockport—State Highway Dept., Albany, petitioned to improve East Canal Rd. from village line to East Lake Rd.

N. Y., Dundee—Yates Co. petitioned State Highway Dept., Capitol, Albany, to build Dundee-Wayne Rd. About $135,000 available.

N. Y., Ogdensburg—Bd. Supervs. St. Lawrence Co., petitioned State Highway Dept., Capitol, Albany, to improve Heuvelton-Gouverneur Post Rd.

N. Y., Rochester—Bd. Supervs., Monroe Co. petitioned State Highway Dept., Capitol, Albany, to build road from Alton to Wolcott, from Honeoye Falls to Lima, from Lima to Hemlock, from East Avon to Lakeville and from Bergen to Batavia Twps.

N. Y., Rochester—Bd. Supervs. Monroe Co. petitioned State Highway Dept., Capitol, Albany, to build Fairport Village Rd., Industry Rd., Rochester-Syracuse Rd. through Lyons, Sodus-Wolcott Rd., road from Sweden to Walker and road from Bergen to Batavia.

N. Y., Rochester—City considering paving Tryon Park, cost, $56,200; Driving Park Ave., $17,600; Smith St., $32,000; grading, building sidewalks, installing sewers, etc., in Federal, Jersey, Wisconsin and Sodus Sts., $88,800; repairing various pavements, $10,000. A. C. Poole, city engr.

N. Y., Rochester—New York Central R.R. Grand Central Terminal, New York City, has been granted appropriation to extend Colby St. under tracks; also abolish Blossom Rd. grade crossing. G. W. Kittredge, New York City, ch. engr.

N. Y., Schenectady—City appropriated $20,000 to extend, grade and pave Green and Jefferson Sts. and eliminate bridges over abandoned Erie Canal. L. B. Sebring, city engr.

N. Y., Troy—Rensselaer Co. petitioned State Highway Dept., Capitol, Albany, to improve 4 mi. Hoosick Rd. from Hoosick Twp. to Vermont State Line; 3½ mi. Petersburg-Pownal Rd., connecting Hoosick Rd. with Mohawk Trail; extending 4 mi. Boston Post Rd. from Castleton to Columbia Co line to join New York Post Rd., extending 2½ mi. Northern Turnpike from Oil Mill Hill through Oakwood Ave. to city pavement in Oakwood Ave. near Frear Park. H. Dahl, co. clk.

N. J., Elizabeth—Bd. Freeholders Union Co. plan to improve Mountain Ave., Springfield Twp. and Stuyvesant Ave. and Chestnut St., Roselle Twp. Noted June 20. A. Bauer, engr.

N. J., Elizabeth—City plans to pave Elizabeth Ave. from 7th St. to Staten Island Sound and 1st St. from Elizabeth Ave. to Port Ave. About $376,000. T. E. Collins, city engr.

N. J., Newark—See "Miscellaneous."

N. J., Newark—Bd. Freeholders Essex Co. plans to pave Grove St., Stuyvesant Ave., Avondale Rd., Nutley Twp.; Rutgers St., Belleville Twp. bituminous on 6 in. concrete; Avondale Rd., Nutley Twp., from River Rd. to Nutley bridge, Rutgers St., Belleville Twp. from Washington Ave. to Erie R.R., granite block on 6 in. foundation; Stuyvesant Ave., Irvington Twp., from Lyons Ave. to Union Co. line, Center St., Nutley Twp., from Franklin Ave. to East Passaic Ave., Gregory Ave., West Orange Twp., Watchung Ave., Montclair Twp., East Passaic St., Nutley Twp., bituminous concrete, Central Ave., West Orange Twp., asphalt block on concrete base.

N. J., Trenton—City plans to widen 1 block Perry St. from Warren to Broad Sts., 25 ft. About $100,000. J. R. Fell, 134 North Clinton Ave., city engr.

N. J., Trenton—City plans to pave Calhoun St. from West State St. to water power station. J. R. Fell, Jr., city engr.

Streets and Roads (Continued)

N. J., Trenton—Mercer Co. plans to widen 1 block South Montgomery St. from State to Front Sts., from 18-80 ft. About $150,000. A. Swan, co. engr.

N. J., Verona—Town having plans prepared improving entire length of Bloomfield Ave. About $30,000. Work involves 19,362 ft. concrete curbing and nosing.

N. J., Weehawken—Town having plans prepared extending and improving Oak St., 2300 ft., to Gregory Ave. McClave & McClave, Cliffside, engrs.

N. J., West Orange—Bd. Freeholders Essex Co. (Newark), having plans prepared altering line and lowering grade of Eagle Rock Ave. About $133,933.

Pa., Bradford—City plans to pave Seward Ave., 2100 ft. long, 30 ft. wide. Work involves 6000 sq.yd. vitr. brick pavement on 6 in. concrete base and 4100 lin.ft. concrete curbing. About $25,000. B. A. Wise, city engr.

Pa., Ellwood City—City plans to issue $42,000 bonds to pave and improve various streets.

Pa., Mercer—Mercer Co. election May 1, to vote on $800,000 bonds to build various roads.

Pa., Mt. Olive—City plans to issue $100,000 bonds to pave various streets.

Pa., Newcastle—Comrs. Lawrence Co. plan to issue $800,000 bonds to improve various roads.

Pa., Pittsburgh—City passed ordinance to pave and curb 3170 ft. Marshall Ave. from Linwood Ave. to Brighton Rd., 60 ft. wide; cost $117,000; grade, pave and curb 330 ft. Stevenson St. from Bluff St. to end of present pavement, 36 ft. wide, involving 1330 sq. yd. stone block on 6 in. concrete base, 565 lin.ft. concrete curbing and 904 cu. yd. earth excav., $12,000. T. N. Reed, City County Bldg., engr.

Pa., Warren—Warren Co. plans election Apr. 5 to vote on $750,000 bond issue for road work. This amount is in addition to $1,500,000 aid promised by state in next four years. State will build 8 mi. road from Warren to Youngsville during 1919, 16 mi. from Warren to Sheffield and from Youngsville to Pittsfield in 1920, 13 mi. from Pittsfield to Erie Co. line in 1921, and 8 mi. from North Warren to New York state line in 1922. County will expend $750,000 to be voted on feeders to above roads.

W. Va., New Cumberland—Hancock Co. Butler Dist. election Mar. 29, to vote on $100,000 bonds to build Chester-Pughtown-New Cumberland Weirton Rd. C. E. Grafton, co. engr.

N. C., Kingston—Comrs. Lenoir Co. plans to issue $1,000,000 bonds to build various roads.

N. C., Mount Olive—City plans to issue $75,000 bonds to pave streets and $25,000 bonds to build sidewalks.

N. C., Raleigh—Western Wake Highway Com. plans to build road from here to Cary. About $130,000. F. McNeill, chn.

Ga., Brunswick—City election Apr. 2, to vote on $150,000 bonds to pave and improve roads. L. T. Morgan, city engr.

La., Slidell—City having plans prepared for improving various streets. About $30,000. X. A. Kramer, Magnolia, Miss., engr.

O., Akron—Comrs. Summit Co. soon receive bids grading and paving 2 mi. Springfield Rd. from Springfield Center to Portage Co. line, 17 ft. wide, cost, $100,000; 2.9 mi. Arlington Rd. south of East Liberty, 17 ft. wide, brick, concrete or asphaltic concrete, $100,000.

O., Akron—Comrs. Summit Co. plan to grade and pave 8½ mi. Akron-Cleveland Highway, 18 ft. wide, either monolithic brick on 8 in. concrete or 10-in. concrete base. About $425,000. C. Costigan, co. engr.

O., Columbus—City plans to pave Brier Alley from Long to Spring Sts.; alley west of 18th St., from Bryden Alley to Cherry St., and Grant Ave. from 5th to 11th Aves. H. Maitzel, city engr.

Mich., Grand Rapids—City plans to pave 1107 ft. Hilton Ave. from Prescott to Grant Sts., brick on concrete base, 26 ft. wide, cost $12,290; repave 1900 ft. Fulton St. from Division Ave. to Grand River, brick on present foundation, 28 and 42 ft. wide, $21,905; 1466 ft. Shawmut Ave. from Front to Seward Aves., brick, 42 ft. wide, $22,490; removing old gravel roadway and repaving 759 ft. Grand Ave. from Fulton to Fountain Sts., rein.-con. including necessary curbing and underground work, 30 ft. wide, $7050 and 2120 ft. Clancy Ave. from Cedar to Fairbanks Sts., 2 in. bituminous concrete on 6 in. concrete base, catch basins and curbing, 26 ft. wide, $21,400. G. J. Wagner, city engr.

Mich., Grand Rapids—City plans to pave and drain 2272 ft. College Ave. from Carrier to Sweet Sts., 38 ft. wide, involving 10,125 sq.yd. vitr. brick on 6 in. concrete base, 4066 lin.ft. concrete curbing, cost $43,500; grading, curbing and paving 3152 ft. 7th St. from Turner to Stocking Aves., rein.-con., 30 ft. wide, $31,450; repaving 3153 ft. Crescent St. from Bostwick to Union Aves., with 2½ in. sheet asphalt, 30 ft wide, $18,512; 1819 ft. Fulton St. from Grand River to Lexington St., brick on present concrete base, 42 ft. wide, $30,050; removing old gravel roadway and repaving 759 ft. Grand Ave. from Fulton to Fountain Sts., 2 in. bituminous concrete on 6 in. concrete base, 30 ft. wide, $7515; 2570 ft. Eastern Ave. from Franklin to Hall Sts., bituminous concrete on concrete base, including necessary curbing and underground work, 30 ft. wide, $28,650. G. J. Wagner, city engr.

Mich., Grand Rapids—Comrs. Kent Co. soon receive bids grading and paving 3½ mi. Knapp St. Rd. from ½ mi. east of city limits to 4 mi. east, 16 ft. wide; 2 mi. Kalamazoo Ave. Rd. near Dutton Twp., 16 ft wide; 3 mi. Alpine Ave. from north city limits to 3 mi. north, concrete, 16 ft. wide. C. K. Whiting, Court House, engr.

Ill., Edwardsville—Bd. Supervs. Madison Co. sold $600,000 bonds to build hard surface road from Granite City to Alton, from East St. Louis to here and from Staunton and East St. Louis to Highland.

Ill., Lockport—City plans to pave with concrete 14th St. from State to Division Sts., Madison St. from 9th to Division Sts., and 11th St. from Madison St. to east city limits. A. S. Calkins, engr.

Ill., Robinson—Bd. Local Impvts. receives bids about June 1, paving curbing and guttering various streets, brick and concrete. About $28,000. J. P. Lyons, engr.

Ill., Rockford—Bd. Local Impvts. plans to pave 9th St. between 14th and Harrison Aves., cost $77,000. S. B. Hand, pub. engr.

Ill., Winnetka—Bd. Local Impvts. soon lets contract paving various streets, involving 58,860 sq.yd. 1 course rein.-con. pavement with integral curbs, 30 ft. joints and asphaltic felt filler, 36,500 cu.yd. excav., 1950 sq.ft. sidewalk to be adjusted, 2010 ft. concrete sidewalk approach, sewers, catchbasins, inlets, etc. About $185,753. Windes & Marsh, engrs.

Ill., Zion City—City plans to pave 2 mi. road with concrete, to connect Chicago-Milwaukee Rd. W. H. Clendinen, mayor and chn. com. local impvts.

Kan., Kansas City—Comrs. Wyandotte Co. receive bids about Mar. 15, paving 1 mi. Kaw Valley Rd., concrete, 18 ft. wide. O. K. Williamson, engr. Noted Dec. 5.

Kan., Kansas City—Comrs. Wyandotte Co. receive bids about Mar. 15 paving 3½ mi. Fort to Fort Highway, concrete, 18 ft. wide. O. K. Williamson, engr.

South Dakota—State Highway Comn., Pierre, receives bids about May 1, grading and draining 11.8 mi. Belle Fourche-Alzada Rd., 36 ft. wide, involving 2330 lin.ft. corrugated culverts, 228 cu.yd. concrete culverts, 1072 lin.ft. wooden guard rail, 54,500 cu.yd. earth excav. About $31,000.

South Dakota—State Highway Dept., Pierre, plans to grade, gravel and drain roads in following counties:

Devel Co., 8.6 mi. Millbank, Clear Lake and Canby Rds., 18 ft. wide, involving 28,300 cu.yd. earth excav., 8,592 cu.yd. gravel, 950 lin.ft. corrugated culverts, 153 cu.yd. concrete culverts, 8480 lbs. steel reinforcement and 1100 lin.ft. wooden guard rail, cost, $28,500.

Lincoln Co., 10 mi. Canton-Parker Rd., 16 ft. wide, 5 in. deep, involving 758 lin.ft. corrugated culverts, 186 cu.yd. concrete culverts, 14,800 lbs. reinforcing steel, 12,600 cu.yd. earth excav. and 7500 cu.yd. gravel, $41,600.

Brookings Co., 6.5 mi. Brookings-Dell Rapids Rd., 18 ft. wide, and building abutments to 2 river bridges, involving 388 lin.ft. corugated culverts, 353 cu.yd. concrete for culverts and abutments, 14,600 lbs. reinforcing steel, 20,834 cu.yd. earth excav. and 6461 cu.yd. gravel, $261,000.

Brown Co., 12.6 mi. Alberdeen-Webster Rd., 18 ft. wide, and building two 20 ft. span bridges, involving 1000 lin.ft. corrugated culverts, 308 cu.yd. concrete culverts and bridges, 16,000 lbs. steel reinforcement, 31,600 cu.yd. earth excav. and 18,600 cu.yd. gravel, $72,500.

Moody Co., 13.8 mi. Flandreau-Madison Rd., 16 ft. wide, 5 in. deep, over 5.2 mi., involving 744 lin.ft. corrugated culverts, 1762 lin.ft. wooden guard rail, [illegible] lin.ft. drain tile, 24,000 lbs. steel rein[illegible] cement, 405 cu.yd. concrete culverts, and [illegible] ments. 73,900 cu.yd. earth excav. and [illegible] cu.yd. gravel, $41,000.

Mont., Roundup—Musselshell [illegible] plans to grade and build drainage str[illegible]ures on 12 mi. Roundup-Lavina Rd. A[illegible] $10,000. R. E. Bushnell, co. engr.

Mo., Charleston—Mississippi Co. plans to improve 15 mi. of present road from here through Wyatt to Birds Point. About $160,000. Address Business Men's League, Charleston.

Mo., Clayton (St. Louis, P. O.)—State Legislature, Jefferson City, petitioned to authorize St. Louis Co. to issue $3,000,000 to improve roads. W. Elbring, Clayton, co. engr.

Mo., Kansas City—Jackson Co. having plans prepared for macadamizing 4½ mi. dirt road from end of Holmes St. to Red Bridge. O. C. Sheley, co. engr.

Ark., Conway—State Legislature, Little Rock, petitioned to appropriate $25,000 to improve portions of Bruce St. and Donaghey Ave., adjacent to Arkansas State Normal School grounds.

Ark., Marion—Comrs. Crittenden Co. plans to build system of hard roads in 6 districts throughout county, radiating from point opposite Memphis Roads. Cost between $2,000,000 and $3,000,000.

Texas—State Highway Comn., Austin, plans to extend highway No. 20, 80 mi., also macadamize same.

Tex., Dallas—City having plans prepared paving Ann St. from Santa Fe Ry. to Stonewall St., Allen St. from Ross St. to Dallas Branch, Worth St. from Fulton to Paulus St., Clarence St. from Lattimer to Oakland St., Peak St. from Eastside to Forney Aves., Uvalde rock asphalt; also Knight St. from Ceader Springs Rd. to Brown St., Forest Ave. from Meadows St. to 2nd Ave., Colonial Pl. from Colonial Ave. to Holmes St., Sunset Ave. from Bishop Ave. to Polk St., Reagan St. from Ceader Springs Rd. to Maple Ave., Shelby St. from Dickason to Maple Aves., and Thromkmorton St. from Ceader Springs Rd. to Maple Ave., bitulithic. G. D. Fairtrace, city engr.

Tex., Dallas—Dallas Co. election Apr. 1, to vote on $2,000,000 bonds to improve roads. J. F. Witt, co. engr.

Tex., Waxahachie—City voted $60,000 bonds to pave streets and extend water and sewer mains. Noted Jan. 30.

Oklahoma—State Highway Comn., Oklahoma, plans to issue $50,000,000 bonds for construction and maintenance of roads.

Okla., Antlers—Comrs. Pushmataha Co. voted $100,000 bonds to build roads in Antler Twp. and $29,000 for roads in Kiamichi Twp.

Okla., Idabel—Comrs. McCurtain Co. voted $50,000 bonds to build roads. D. Flenniken, secy.

Wash., Seattle—King Co. had plans prepared by S. Humes, co. engr., for 4.7 mi. hard surfaced highway to Bothell, 38 ft. wide. About $100,000.

Oregon—State Highway Comn., Multnomah Co. Court House, Portland, soon lets contract grading and paving 6.9 mi. Pacific Highway from Jefferson to Albany, Linn Co., involving 31,000 cu.yd. excav., 65,000 sq.yd. surfacing; macadamizing 4.9 mi. Pacific Highway, from Wolf Creek to Grave Creek Sect., Josephine Co., involving 10,500 cu.yd. gravel and rock; grading and graveling 7.2 mi. John Day Highway, from John Day to Fisk Creek Sect., Grant Co., involving 42,000 cu.yd. excav. and 20,000 cu.yd. gravel; grading and macadamizing 2.7 mi. Yamhill-Nestucca Highway, Grande Ronde Sect., Yamhill Co., involving 20,000 cu.yd. excav., 4300 cu.yd. broken stone macadam. H. Nunn, state highway engr.

Oregon—State Highway Comn., Salem, petitioned by Wasco, Jefferson, Deschutes and Klamath counties for $500,000 appropriation to build Dalles-California Highway. Commercial Club of Bend, interested.

Oregon—State Highway Comn., Salem, plans election to vote on $2,500,000 bonds to build Roosevelt Memorial Highway along Pacific coast, across state from California to Washington state line.

Oregon—State Highway Comn., Salem, soon receives bids for grading 1000 mi. roads. Main line roads, 25 ft. wide, forestry and postroads, 20 ft. wide; also building 40 new bridges. About $10,000,000 available for work.

Streets and Roads (Continued)

Oregon—State Legislature, Capitol, Salem, plans to issue $10,000,000 bonds for following roads: Pacific Highway from Portland to California line and Columbus Highway from The Dalles to Astoria cost, $7,500,000; from The Dalles to Bend to The Dalles from Medford to Klamath Falls and Lakeview, from Coos Bay to Roseburg, from McMinnville to Tillamook, from Nahalem to Seaside, from Eugene to Pacific coast and from Burns to Bend and Ontario, $2,500,000.

Ore., Enterprise—City plans to issue $25,000 bonds to pave street intersections.

Ore., Eugene—State Highway Comn., Salem, will survey land for new highway from Willamette to Lake Creek Valleys. State and county will pay 50% of cost and balance will be borne by Federal Government.

Ore., Hood River—Hood River Co. plans election to vote on $450,000 bonds to build roads.

Ore., Klamath Falls—City plans to improve Spring St., cinders, $3795, water bound macadam, $3975; Lincoln St., cinders, $2206, oil macadam, $4234; Grant St., cinders, $1158, oil macadam, $1695.

Ore., Marshfield—City plans to improve North Bway., bitulithic, Market Ave., concrete, and Park Ave., 36 ft. wide concrete. About $45,000. E. K. Burton, city engr.

Ore., North Bend—City plans to build 6 and 14 ft. sidewalks on Sherman Ave.; pave Sherman Ave. hill, 15 ft. center parking, from Maryland to Washington Sts.; Maryland St. from Sherman to Sutherlin Sts., 14 ft. wide, also 14 ft. center parking on Sutherlin St. from Ohio to Maryland Sts. About $100,000.

Ore., Pendleton—Umatilla Co. plans to issue $1,050,000 bonds to build following highways: Oregon Washington Highway from Milton to Oregon-Washington state line, cost $50,000; Hudson Bay Highway, from Sunnyside to Umapine, $30,000; Pendleton-Cold Springs Highway from Cold Springs Sta. to Pendleton, $185,000; Oregon-Washington Highway from Pendleton to Pilot Rock, $70,000, from Weston to Milton, $80,000; from Pilot Rock to Nye, $20,000; from Nye to Morrow Co. line, $15,000; from Athena to Weston, $30,000; from Blakeley to Athena, $65,000; Old Oregon Trail from Pendleton to Umatilla Union Co. line, $100,000; from Morrow-Umatilla Co. line to Pendleton, $250,000; Pendleton-John Day Highway from Nye to Grant-Umatilla Co line, $65,000; Helix Highway from Helix to Havana Sta., $90,000.

Ore., Reedsport—Umpqua Valley Dist. plans to build auto beach highway from Drain to Reedsport via Scotsburg and connecting with Elkton-Drain highway.

Ore., Warrenton—Commercial Club petitioned State Highway Comn., Capitol, Salem, to build road from Smiths Point to Warrenton Twps. across Youngs Bay; also bridge running parallel with Spokane, Portland & Seattle R.R. trestle.

California—Committee representing over 250 civic municipal and commercial organizations plan election to vote on $35,015,000 bonds; $15,015,000 to be used to grade and pave 1150 mi. new highway, and $20,000,000 to complete original highway. Plans include road from Barstow to Needles, cost, $350,000; from Oxnard to San Juan Capistrano, $4,000,000; from Barstow to Mojave, $150,000; from Santa Maria to Bakersfield, $1,000,000; Skyline Blvd. from San Francisco to Santa Cruz, $2,471,000; from Rio Vista to Fairfield, $384,000; from Auburn to Verdi, $1,000,000; from Ukiah to Tahoe City, $2,700,000; Crescent City to Oregon line, $400,000; from Santa Rosa to Shellville, $450,000; Big Pine to Fasis $300,000; Placerville to Sportsmans Hall, $100,000; Feather River Canyon Rd. from Oroville to Quincy, $85,000; Kings River Canyon Rd., $100,000; Calistoga to Lowa Lake, $200,000; Mecca to Blythe, $300,000; Rumsey to Lower Lake, $254,000. A. B. Fletcher, Sacramento, state highway engr.

Cal., Brawley—City soon receives bids grading and paving 1 mi. Main and 8th Sts., 24 ft. wide, 7 in. concrete.

Cal., Holtville—City Trustees retained H. J. Burk, engr., El Centro, to supervise paving in 2 districts; Dist. No. 1 will encompass portions 5th, 6th, Palm, Pine and Holt Sts. and involve 252,220 sq.ft. paving; Dist. No. 2, portions 6th, 7th, Olive, Pine, Palm and Holt Sts. and involve 244,800 sq.ft. paving. Noted Jan. 23.

Cal., Maricopa—City plans to pave 1¼ mi. streets.

Cal., Pasadena—H. Dyer, city clk., receives bids in April improving Warengo Ave. from Colorado to Walnut Sts., including cement curbs, concrete gutters, cement walks and Warrenite pavement. R. V. Orbison, city engr.

Cal., Riverside—Bd. Supervs. Riverside Co. plan to make appropriation in next year's budget to assist in constructing 15 mi. highway between Fertilla and Palo Verde via Blythe, probably macadam. About $75,000. A. B. Pilch, co. clk. Property owners will raise $50,000 by direct tax.

Cal., San Diego—City plans to improve Howard and Lincoln Ave. from Park Blvd. to east city limits; Polk Ave. from Georgia St. to east city limits. Plans include grading, cement curbing and sidewalks, draining, etc. G. Cromwell, city engr.

Cal., Santa Barbara—City having plans prepared by A. B. Cook, city engr., paving East Mission St. between Bath St. and Modoc Rd. and improving East Montecito St. between State and Milpas Sts.

Que., Quebec—City plans to pave Charlesbourg and Beauport Rds. About $200,000. W. D. Baillargee, City Hall, engr.

Que., Three Rivers—City plans to pave and macadamize various streets. About $50,000. L. Lambert, City Hall, engr.

Ont., L'Original—Prescott Co. soon receives bids building various roads. About $200,000. F. A. Senecal, L'Original, engr.

Ont., Oakville—City passed by-law authorizing construction of macadamized pavement. About $200,000.

BIDS DESIRED

Mass., Brighton (Boston P. O.)—Until Mar. 11, by T. F. Sullivan, comr. pub. wks., for paving Justin Rd. from Bigelow to Atkins Sts. and Perthshire Rd. and Matchett St. from Bigelow to Matchett Sts., sheet asphalt, Topeka, bitulithic or filbertine.

N. Y., Buffalo—Until Mar. 11, by A. G. Hinkley, clk. bd. supervs. Erie Co., surfacing 4 groups of improved roads.

N. Y., Long Island City—Until Mar. 10 M. E. Connolly, pres. Queens Boro., regulating, grading, curbing and paving, with bituminous macadam, 87th St. from 80th to 85th Sts., Skillman Ave. from 3rd to 5th Sts., Mount St. from Hunterspoint to Thomson Ave., Gamma Pl. from Surburban St. to Myrtle Ave., 85th Rd. from 83rd to 91st St., Sanford Ave. from Boerum Ave. to Murray St., 87th Rd. from 78th to 80th Sts., Hillside Ave. from North Morris to Metropolitan Aves.

N. J., Bridgeton—Until Mar. 10, by Bd. Freeholders Cumberland Co., improving 4.102 cu.yd. Port Norris-Mauricetown Rd., gravel surface on sand and earth foundation. W. M. Sharp, Bridgeton, engr. Noted Feb. 20.

Pennsylvania — Until Mar. 28, by State Highway Comn., Harrisburg, rebuilding roads in following counties:

Armstrong Co., 21,680 lin.ft. rein.-con. and Hillside vitr. brick.
Berks Co., 10,800 ft. rein.-con. and Hillside vitr. brick.
Bradford Co., 31,700 ft. rein.-con.
Cambria Co., 4983 ft. vitr. brick.
Center Co., 32,100 ft. rein.-con. and Hillside vitr. brick.
Clinton Co., 13,740 rein.-con.
Crawford Co., 17,693 ft. rein.-con.
Elk Co., 29,667 ft. rein-con. and Hillside vitr. brick.
Erie Co., 15,918 ft. bituminous on concrete foundation.
Franklin Co., 20,086 ft. rein-con.
Mercer Co., 23,912 ft. rein.-con.
McKean Co., 1957 ft. vitr. brick.
Northumberland Co., 28,791 ft. rein.-con.
Potter Co., 11,800 ft. rein.-con.
Warren Co., 7783 ft. rein.-con., Hillside vitr. brick. L. S. Saddler, state highway comr.; advertised in this issue.

Pennsylvania—Until Mar. 20 by State Highway Comn., Harrisburg, building roads in counties as follows:

Adams Co., 27,520 ft. rein-con. road, Strabane Twp.
Berks Co., 8984 ft. bituminous road on concrete foundation, Spring Twp.
Clarion Co., 1842 ft. vitr. block road, Clarion Boro.
Clinton Co., 12,636 ft. bituminous road on concrete foundation, Pine Creek Twp.
Columbia Co., 8420 ft. vitr. block road, Millville Boro.
Delaware Co., 5745 ft. bituminous and vitr. block road on concrete foundation, Clifton Heights Boro.
Elk Co., 4566 vitr. block road, St. Mary's Boro.
Erie Co., 8760 ft. rein.-con. road, Springfield Twp.; 25,872 ft. rein.-con. road, Harbor Creek and Northeast Twps.; 15,327 ft. rein.-con. road, Fairview and Girard Twps.
Fayette Co., 26,112 ft., rein.-con. and hillside vitr. block road, Georges, Nicholson und Springfield Twps.
Greene Co., 34,259 ft. rein.-con. hillside vitr. block road, Jefferson, Morgan and Franklin Twps.
Lancaster Co., 5600 rein.-con. road, Coleraine Twp.
Lawrence Co., 4906 ft. rein.-con. road, Union and Taylor Twps.
Lehigh Co., 35,035 ft. rein.-con. road, U. and L. Macungie Twps.
Monroe Co., 23,510 ft. rein.-con. road, Coolbough Twp.
Tioga Co., 7824 ft. rein.-con. road, Elkland Boro.
Warren Co., 26,862 ft. rein.-con. road, Conewango and Broken Straw Twps. L. S. Saddler, highway comr.; advertised in this issue.

Pa., Dravosburg—Until Mar. 18, by Boro and Comrs. Allegheny Co. (Pittsburgh) for improving Richland Ave., 20 ft. wide, brick block on concrete base. Entire cost to be borne by Allegheny Co. J. P. Moore, co. controller.

Delaware—Until Mar. 26, by State Highway Dept., Dover, building 0.5 mi. State Highway, vitr. brick, in New Castle Co. Work involves 3400 cu.yd. grading, 800 lin. ft. pipe underdrain, 5000 lin.ft. concrete curb, 1800 cu.yd. concrete foundation, 11,500 sq.yd. vitr. brick pavement, etc. C. M. Upham, ch. engr.

Maryland—Until Mar. 11, by State Rds. Comn., 601 Garret Bldg., Baltimore, for grading 19,000 cu.yd. Ferry Bar, foot of Light St., to elevation of mean low tide, to distance of 500 ft. from end of Old Light St. bridge. F. H. Zouck, chn.

Va., Louisa—Until Mar. 8, by Louisa Co. building 1.72 mi. Kents Shore Rd., soil, 20 ft. wide, between Louisa and Bells Cross Rd.; 2.52 mi. Bibbs Store Rd., soil, 20 ft. wide, between Louisa and Forks. S. L. Liggett, Gordonsville, engr.

W. Va., Fairmont — Until Mar. 26, by Comrs. Marion Co. building 8.73 mi. brick-concrete roads in Paw Paw, Lincoln and Mannington Dists. A. C. Martin, co. clk.; advertised in this issue.

W. Va., Philippi—Until Mar. 20, by S. F. Hoffman, clk. Barbour Co., building 6.5 mi. Fairmont and Beverley Turnpike, Federal Aid Projects No. 16 and 27, 14 ft. wide, 2.85 mi. Junior Rd., bituminous macadam, 14 ft. wide; advertised in this issue. Noted Jan. 23.

Ala., Tuscumbia—Until Mar. 17, by Comrs. Colbert Co., graveling 7.71 mi. Jackson Highway, State Rd. No. 8, between Tuscumbia and Russellville Twps., involving 800 cu.yd. earth excav., 12,440 cu.yd. clay gravel, 7.71 mi. machine dressing, 72 cu.yd. concrete, etc. W. S. Keller, Montgomery, state highway engr. Noted Aug. 15.

Miss., Pascagula—Until Mar. 11, by city, paving and building sanitary and storm sewers in various streets, involving 6250 cu-yd. earth excav., 26,750 sq.yd. pavement, vitr. pipe, manholes and catchbasins. About $165,000. X. A. Kramer, Magnolia, engr. Noted Jan. 16.

Miss., Tunica—Until Mar. 17, by Bd. Comrs. Tunica Co., grading and graveling about 12 mi. road in Special Rd. Dist. No. 1, 9 ft. wide. L. W. Mashburn, Clarksdale, engr. Noted Feb. 27.

Miss., Yazoo—Until Mar. 15, by Comrs. Yazoo Co. grading, graveling and draining 31 mi. road, Beat. No. 1, 12 ft. wide, involving 130,000 cu.yd. grading, 11,000 cu.yd. graveling, 24 mi. clearing, 175 cu.yd. plain concrete and 200 cu.yd. rein.-con. M. Faulkner, Yazoo, chn. W. H. Bradley, Flora, engr.

La., Thibodaux—Until Mar. 12, by Lafourche Parish Police Jury, building hard surfaced roads in Dist. No. 2 and 3. J. A. Lovell, engr.

O., Dayton—Until Mar. 28, by State Highway Dept., Columbus, building brick, concrete or macadam roads to include 2.64 mi. Dayton-Chillicothe Pike, 16 ft. wide, cost, $50,000; 2.25 mi. Cincinnati Pike, 16 ft wide, $95,000; 6 mi. Eaton Pike, 16 ft. wide, $95,000. Noted Jan. 9.

Streets and Roads (Continued)

O., Steubenville—Until Mar. 17, by City repaving 18,000 sq.yd. 5th St., from Franklin Ave. to 4th St., wood block, asphalt, brick or concrete. J. N. Leech, city engr. Noted May 2, 1918.

O., Wauseon—Until Mar. 8, by Comrs. Fulton Co. paving 5.01 mi. Sect. O, Toledo-Wauseon Rd. with monolithic brick macadam, cost, $97,285; 3.64 mi. Sect. G, Wauseon-Morienci Rd. waterbound macadam, $48,369; .51 mi. Sect. C-1, Swanton-Metamoree Rd., bituminous macadam, $6438.

Mich., Grand Rapids—Until Mar. 11, by C. K. Whiting, engr. Kent Co., grading and paving 3 mi. Dutton Rd., from Dutton Twp. 3 mi. east, 16 ft. wide, cost $60,000; 2½ mi. Alaska Rd. from Kraft School to Alaska St., concrete, 16 ft. wide, $60,000.

Wis., Edgerton—Until Mar. 20, by city improving various streets. About $70,000.

Ia., Logan — Until Mar. 20 by H. Wessels, city clk., building 60,000 sq.yd. concrete or monolithic brick pavement, 40,000 lin.ft. concrete curb and gutter and storm sewerage system; advertised in this issue. Noted Feb. 27.

Minn., Center City—Until Mar. 27, by Comrs. Chicago Co., for following road work: Job. No. 1801, State Rd. No. 8, clearing and grubbing 6 acres, involving 12,085 cu.yd. excav., 100 lin.ft. tiling, 396 lin.ft. placing culvert, 500 lin.ft. guard rail, 1500 cu.yd. overhaul, 3712 cu.yd. gravel and 11,700 lin.ft. shaping and compacting; Job No. 1802, State Rd. No. 2, clearing grubbing, 4.10 acres, involving 14,415 cu.yd. excav., 40,000 cu.yd. overhaul, 1800 cu.yd. ditching, 600 lin.ft. cross waying, 530 lin. ft. hauling and placing culverts, 6748 cu.yd. gravel, 23,200 lin.ft. shaping and compacting; Job No. 1804, State Rd. No. 1, clearing and grubbing 5.30 acres, involving 18,010 cu.yd. excav., 7327 cu.yd. overhaul, 1200 cu.yd. ditching, 17,900 lin.ft. shaping and compacting; Job No. 1805, State Rd. No. 6, reshaping and leveling 10,000 lin.ft. involving 7189 lin.ft. gravel, 10,000 lin.ft. shaping and compacting; Job No. 1806, State Rd. No. 11, reshaping 8100 lin.ft. involving 290 lin.ft. placing culverts, 3048 lin.ft. gravel, 8100 lin.ft. shaping and compacting.

Minn., Ivanhoe—Until Mar. 12, by A. L. Swenson, aud. Lincoln Co., for following road work: Job No. 1901, State Rd. No. 2, involving 13,000 cu.yd. graveling; Job. No. 1902, State Rd. No. 5, involving 11,130 cu.yd. grading and 4486 cu.yd. graveling; Job. No. 1903, State Rd. No. 3, involving 2598 cu.yd grading, 13,050 cu.yd. leveling ditch bank, 3600 lin. ft. woven wire railing, 13,040 cu.yd. graveling, and 45.68 cu. yd. concrete in 1 concrete culvert, 8 x 8 x 24 ft., type W. 88.

Minn., St. Cloud—Until Mar. 18 by Comrs. Stearns Co. building 20 mi. Federal Aid Project No. 25, State Rd. Nos. 1 and 12. Work involves 16.4 acres clearing, 12.5 acres grubbing, 90,178 cu.yd. excav., 8680 lin.ft. guard rail, 2660 lin.ft. 12-36 in. concrete culverts, 24,026 cu.yd. loading and hauling, one 26 x 46 ft. and one 26 x 104 ft. rein.-con. culverts, 3 concrete bridges, one 30 ft., one 28 ft. and one 23 ft., all 20 ft. roadway. M. J. Cleveland, co. engr. Noted Feb. 27.

Kan., Olathe—Until Mar. 10, by Comrs. Johnson Co., resurfacing 11,745 ft. road near Shawnee, bituminous macadam, 18 ft. wide, 4 ft. shoulders. C. G. Fayne, engr.

Kan., Wichita—Until Mar. 11, by L. R. Ash, city mgr., paving, curbing and guttering 1⅓ mi. Harry St., from Topeka Ave. to city limits, brick, 30 ft. wide. E. L. Brockway, city engr.

N. D., Bottineau—Until Mar. 25, by Comrs. Bottineau Co., grading 10 mi. State Aid Project No. 0582, 36 ft. wide. W. H. Robinson, Bismarck, state highway engr. Noted Dec. 19, under North Dakota.

N. D., Devils Lake—Until Mar. 27, by Comrs. Ramsey Co., grading 4.5 mi. Federal Aid Project No. 18, 36 ft. wide, from Churches Ferry east.; 17.1 mi. Federal Aid Project No. 19, 36 ft. wide, north west and south east from Devils Lake Twp.; 3 mi. Federal Aid Project No. 3672, East Devils Lake Twp. About $12,385, $20,123 and $4100 respectively. W. H. Robinson, Bismarck, state highway engr. Noted Feb. 27 under North Dakota.

N. D., Rugby—Until Mar. 24, by Comrs. Pierce Co., grading 5 mi. Federal Aid Project No. 10, 36 ft. wide. W. H. Robinson, Bismarck, state highway engr. Noted Dec. 19, under North Dakota.

N. D., Williston—Until Mar 20. by Comrs. Williams Co., grading 30.5 mi. Federal Aid Project No. 3, 36 ft. wide. W. H. Robinson, Bismarck, state highway engr. Noted Dec. 19, under North Dakota.

Tex., Beaumont — Until Mar. 24, by Comrs. Jefferson Co., building 5 mi. State Highway No. 3, and 11 mi. State Highway No. 8 W. M. Carroll, co. judge; advertised in this issue.

Tex., Mason—Until Mar. 10, by Comrs. Mason Co. improving State Highway No. 9 from Mason to Gillespie Co. line. Work involves 52,572 cu.yd. excav., 2534 cu.yd. surfacing, 82,678 lin.ft. road machine work, 910 ft. 24-36 in. metal pipe. Hess & Skinner, Southwestern Life Bldg., Dallas, engrs.

Washington—Until Mar. 17, by State Highway Comn., Olympia, building 10 mi. road in Douglas Co., $100,000; 3½ mi. new highway from Uniontown to Idaho State line, $45,000; road from Spokane Co. line on Inland Empire Highway, 14 mi. north, $16,000; grading 9 mi. road from Oakesdale to Garfield, $50,000; 2 projects on State Rd. No. 10 Okanogan Co., $90,000; grading and graveling Olympic Highway near Lake Quinault, $20,000; 14 mi. new road between Cheney and Sprague, etc.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

Pa., Phila.—Dept. Pub. Wks., City Hall, received lowest bid Feb. 18, from Union Paving Co., 30th and Locust Sts., repaving over openings in asphalt paved streets on cement concrete base, asphalt binder and surface, including 6 in. concrete base, Schedule "A" $3.46 per sq.yd., total, $35,462; repaving over openings in granite, vitr. and wood block paved streets on cement concrete base, granite block surface, including 6 in. concrete base, Schedule "B" $4.23 per sq.yd., vitr. block surface, 6 in. concrete base, $4.63 per sq.yd., wood block surface, 6 in. concrete base, $5.33 per sq.yd., total, $9535; from McNichol Paving & Constr. Co., 1923 Cherry St., building portion of Parkway from Cherry St. to point east of 18th St., $13,184.

Pa., Pittsburgh—City received bids Feb. 20, grading, paving and curbing (a) Moyer St. involving 552 sq.yd. vitr. brick on 6 in. concrete base, 378 lin.ft. concrete curbing and 214 cu.yd. earth excav.; (b) Fredonia St. 1755 sq.yd. vitr. brick on 6 in. concrete base, 1300 lin.ft. concrete curbing and 450 cu.yd. earth excav.; (c) Tweed St., 3060 sq.yd. vitr. brick on 6 in. concrete base, 2120 lin.ft. concrete curbing and 1709 cu.yd. earth excav.; (d) Camelia St., 3865 sq.yd. stone block on 6 in. concrete base, 2915 lin.ft. concrete curbing and 7664 cu.yd. earth excav.; (e) 53rd St., 706 sq.yd. stone block on 6 in. concrete base, 522 lin.ft. concrete curbing and 1000 cu.yd. earth excav.; (f) 56th St., 732 sq.yd. stone block on 6 in. concrete base, 449 lin.ft. concrete curbing and 795 cu.yd. earth excav.; (g) McCandless St., 1537 sq.yd. stone block on 6 in. concrete base, 973 lin.ft. concrete curbing and 3264 cu.yd. earth excav.; (h) McCandless St., 1915 sq.yd. stone block on 6 in. concrete base, 1495 lin.ft. concrete curbing, 3291 cu.yd. earth excav.; (i) Eggers St., 1200 sq.yd. vitr. brick and 285 sq.yd. stone block on 6 in. concrete base, 1165 lin.ft. concrete curbing, 963 cu.yd. earth excav.; (j) Francisco St., 2060 sq.yd. vitr. brick on 6 in. concrete base, 1568 lin.ft. curbing, 1282 cu.yd. earth excav., 590 ft. 15 in. terra cotta pipe; (k) Holmes St., 1300 sq.yd. vitr. brick and 100 sq.yd. stone block on 6 in. concrete base, 760 lin.ft. concrete curbing, 642 cu.yd. earth excav.; (l) Maple Ave., 1085 sq.yd. stone block on 6 in. concrete base, 386 lin.ft. concrete curbing, 1157 cu.yd. earth excav., 230 yd. french excav.; (m) Lakewood Ave., 1281 sq.yd. vitr. brick on 6 in. concrete base, 985 lin.ft. concrete curbing, 1107 cu.yd. earth excav.; (n) Proxim Way, 1960 sq.yd. vitr. brick on 6 in. concrete base, 990 lin.ft. concrete curbing, 1168 cu.yd. earth excav., 635 sq.yd. concrete, (o) Mellon St., 924 sq.yd. asphalt on 6 in. concrete base, 488 lin.ft. curbing, 152 cu.yd. earth excav.; (p) Rosina Way, 583 sq.yd. asphalt on 6 in. concrete base, 339 cu.yd. earth excav., (q) Carson St., 3535 sq.yd. stone block, 1755 lin.ft. concrete curbing, 2400 cu.yd. earth excav., 310 cu.yd. french excav., 7425 cu.yd. concrete sidewalk, 544 ft. 12 in. terra cotta pipe; (r) Boggs Ave., 1089 sq.yd. vitr. brick on 6 in. concrete base, 491 lin.ft. concrete curbing, from T. Cronin, 17th St., (a) $21,686, (d) $38,061, (e) $6956, (f) $3525, (g) $22,094, (h) $17,948, (i) $9735, (j) $14,135, (k) $8090, (l) $13,694, (n) $13,972, (o) $4966, (p) $4145, (r) $5425; Pittsburgh Paving Co., Blakewell Bldg.; (a) $4305, (b) $9204, (c) $17,633, (i) $9403, (j) $14,310, (k) $7824, (m) $8366, (r) $4927; M. O'Herron, 1st and McKean St., (a) $3354, (b) $9781, (c) $17,590, (i) $10,326, (m) $8169, (q) $53,227; T. O'Toole, Pittsburgh, (b) $9042, (c) $17,519, (m) $8314; Booth & Flynn, 5th Ave., (d) $37,345, (e) $6381, (f) $6643, (g) $21,758, (h) $17,670, (i) $13,979, (o) $5581, (p) $4288, (q) $54,742; F. and F. Dinlus, Boundary St., (j) $14,505, (n) $12,804, (r) $5216; Dallas & Nardulli, 608 Larimer Ave., (k) $8588; Faber Eng. & Constr. Co., Bessemer Bldg., (l) $13,937.

★Md., Baltimore—Bd. awards let contract to Baltimore Asphalt Block & Tile Co., Monroe and Lorman Sts., at $2.68 per sq.yd. for paving and curbing 1 block each of Hillsdale, Norfolk, Ulman and Rock Rose Aves., between Reisterstown Rd. and Towanda Lane; Towanda Lane (16 ft. wide) from Hillsdale to Rock Rose Ave. Tioga Pl. from Liberty Heights Ave. to Reisterstown Rd., all 30 ft. wide, except Towanda Lane, sheet asphalt on 6 in. concrete base, 1½ in. binder and topping, placing armored concrete curbing, etc., also 1 block each of Boone St., Homewood, Oak Hill and Cecil Aves., between North Ave. and 20th St., sheet asphalt on cobbles, 40 ft. wide, each block 350 ft. long. Noted Feb. 20.

W. Va., Middlebourne—Comrs. Tyler Co. received bids building 1 mi. Middlebourne-Salem Rd. Federal Aid Project No. 18, 14 ft. wide, from C. Kennedy & Son, Parkersburg, $37,119; C. B. Kimberly Co., Wheeling, $37,729. Noted Jan. 30.

★Ga., Atlanta—Comrs. Fulton Co. let contract building macadamized pavement on South Moreland Ave. from Confederate Ave. to Paper Mills Rd., to Nichols Constr. Co., Trust Co. of Georgia Bldg. About $26,000. Work involves 8100 yd. excav., 7000 ft. rubble gutter and 10,000 ft. rubble curbing.

Fla., Jacksonville—City received only bid paving Tallyrand Ave. from Deer Creek to city limits, brick on concrete base, from J. Y. Wilson, Clark Bldg., $37,370. F. M. Edwards, city engr. Noted Feb. 6.

★Ky., Bowling Green — Comrs. Warren Co. let contract resurfacing 5.7 mi. macadam roads, to R. G. Price, Bowling Green, base price $1.75 per ton for first mile of haul.

Ohio—State Highway Comn., Columbus, received low bids Feb. 28, building roads as follows:

Athens Co., Sect. "K-2" Logan-Athens Rd., 7900 ft. grading roadway, building drainage structures, and paving with brick from Barthlow & Son, Logan, $50,825; W. B. Sutton & J. P. Mumaw, Huntington, W. Va., $51,247; F. H. Bekler, Athens, $51,807.

Butler Co., Sect. "A-1," Eaton-Middletown Rd., 3300 ft. grading roadway, building inlets and paving with brick, from John Hennessey, Piqua, $35,491; Bigler Bros. Middletown, $35,746; Mitchell & O'Hara, Cincinnati, $37,738.

Carroll Co., Sect. "G," Canton-Steubenville Rd., 12,340 ft. grading roadway, building bridges and culverts and paving with water bound macadam, from Dieffenbacher & Sons Co., Massillon, $39,998.

Clermont Co., Sect. "K-1," Cincinnati-Chillicothe Rd., 10,755 ft. grading roadway, building bridges and culverts and paving with water bound macadam, from L. Wright Cincinnati, $27,611. Sect. "J," Bethel-Chilo Rd., 4094 ft., grading roadway, building bridges and culverts and paving with water bound macadam, from H. C. Lamb, Amelia, $11,056.

Clinton Co., Sect. "A," Wilmington-Xenia Rd., 20,750 ft., resurfacing with 5 in. coarse water bound macadam, from Lunsford & Lunsford, Pedro, $27,402.

Fayette Co., Sect. "K," Springfield-Washington Rd., 13,717 ft. grading roadway, building bridges and culverts and paving with water bound macadam, from Neff & Ruder, Circleville, $26,103; Brewer & Brewer Sons, Chillicothe, $26,190.

Lake Co., Sect. "J," Cleveland-Buffalo Rd., 40,738 ft., grading and paving roadway, building bridges and culverts, from H. T. York & Studebaker, Greenville, monolithic brick, $251,367, rein.-con. $244,364; E. A. Freshwater & Sons, Painesville, monolithic brick, $251,738; Williams & Little Co., 11810 Saywell Ave., Cleveland, concrete

Streets and Roads (Continued)

$236,178, rein.-con. $249,940; Masters & Mullen Constr. Co., 601 Electric Bldg., Cleveland, concrete, $239,100, rein.-con. $251,030. Sect "Q," Cleveland-Buffalo Rd., 28,685 ft. grading and paving roadway, building bridges and culverts, from Masters & Mullen Constr. Co., 601 Electric Bldg., Cleveland, concrete, $164,454, rein.-con. $172,648. Sect. "B," Euclid-Chardon Rd., 11,900 ft., grading roadway, building bridges and culverts and paving with concrete, from L. Garrett Constr. Co., Kent, $48,009.

Mahoning Co., Sect. "N-1," North Lima-East Palestine Rd., 8791 ft., grading roadway, building bridges and culverts and paving with water bound macadam, from L. T. Fletcher Co., Kent, $37,470; Gray Bros., Youngstown, $40,209; Smith Constr. Co., Youngstown, $40,287.

Marion Co., Sect. "I," Marion-Upper Sandusky Rd., 27,100 ft., grading roadway, building bridges and culverts and paving with water bound macadam, from L. L. Aller, La Rue, $84,652; Billiter & Connell, Cincinnati, $91,914; Brady & O'Connell, Marion, $92,882. Sect. "G," Marion-Galion Rd., 7698 ft., grading roadway, building bridges and culverts and paving with water bound macadam, from Brady & O'Connell, Marion $25,736; L. L. Aller, La Rue, $24,924; Carey & McEllroy, Ada, $27,036.

Muskingum Co., Sect. "M-2," Zanesville-Dresden Rd., 3150 ft., grading roadway, building drainage structures and paving with concrete, from Dunsweiller Constr. Co., Zanesville, $16,393; Adams Bros., Zanesville, $16,430.

Preble Co., Sect. "C," Eaton-Greenville Rd., 11,900 ft., grading roadway, building drainage structures and paving with bituminous macadam, from C. W. Conley, Eaton, $51,112; J. C. McCann, Columbus, $51,113; S. M. Bittler, Cincinnati, $51,683.

Vinton Co., Sect. "J-2," Chillicothe-McArthur Rd., 7400 ft., grading roadway, building bridges and culverts and paving with two course concrete, from W. C. Brown, Linden, $43,740; Reinick & Smith, Findlay, $43,752. Noted Feb. 20.

O., Columbus—Bd. Pub. Serv. received bids Feb. 26, paving, grading, curbing, draining. (a) 11,500 ft. Main St. from Allen St. to Alum Creek, 50 ft. wide involving 64,000 sq.yd. asphalt; (b) 5944 ft. 4th St. from Naghten St. to Livingston Ave., 52½ ft. wide, involving 35,780 sq.yd. asphalt; (c) 897 ft. Carpenter St. from Columbus to Schiller Sts., 26 ft. wide, involving 2600 sq.yd. asphalt; (d) 1707 ft. Broad St. from Ausin to Sandusky Sts., 60 ft. wide, involving 11,380 sq.yd. asphalt; (e) excavating and paving 925 ft. Gilbert St. from Columbus to Schiller Sts., brick or asphalt, 26 ft. wide; from Franklin Asphalt Paving Co. (a) $158,584; (b) $115,242; (c) $16,-742; (d) $40,651; (e) asphalt $15,846; Andrews Asphalt Paving Co., Arcade Bldg., (a) $192,114; (b) $141,577; A. G. Pugh, Columbus, (a) $197,584; (c) $19,299; (d) $46,-793; (e) asphalt $19,217; Cleveland Trinidad Paving Co., Arcade Bldg., Cleveland, (b) $136,817; (d) $48,347; (e) asphalt $19,280; A. W. Burns & Co., 55 East State St., (c) $17,825; (e) brick $19,381; H. E. Barthman, Columbus, (e) brick, $19,439; W. M. McLain, Columbus. (e) brick, $19,794. Noted Feb. 13.

★**Ill., Paris**—City let contract paving 2 mi. Preston Rd., brick, to A. J. Parrisa, $31,648.

★**Minn., Aitkin**—Comrs. Aitkin Co. let contract surfacing 6780 cu.yd. State Rd. No. 1, to Stevens Bros., McGregor, $14,915.

★**Kan., Oswego**—Labette Co. let contract building 9.14 mi. Sect. A, Federal Aid Project No. 2, 18 ft. wide, to W. C. Jucksch, Sapulpa, Okla., $81,078. Work involves 52,002 cu.-yd. grading, 86,164 sq.yd. gravel, 134.5 cu.yd. 1:2:4 concrete at $19 per cu. yd., 405.5 cu.yd. 1:3:5 concrete at $17.50 per cu.yd., 6900 lb. reinforced steel at $0.07 per lb.; 10.159 mi. Sect. B, 18 ft. wide to Elliot & Vance, Parsons, $112,135. Work involves 41,305 cu.yd. grading, 95,360 sq.yd. gravel, 41.1 cu.yd. 1:2:4 concrete at $20 per cu.yd., 346.5 cu.yd. 1:3:5 concrete at $16 and 8238 lb. reinforcing steel at $0.07 per lb. Noted Feb. 13.

★**Neb., Lexington**—City let contract grading, curbing and paving 3150 ft. Washington, Grand, 5th and 6th Sts., 50 and 56 ft. wide, to Omaha Structural Steel Bridge Co., 420 Bee Bldg., Omaha. About $81,894. Project involves 20,200 vertical fiber on 5 in. concrete base, 3525 lin.ft. 6 x 20 in. concrete curb and 6000 cu.yd. excav., 600 ft. oak headers at $.45 per ft., 2670 ft. 12 x 16 in. drain boxes, $1.75 per ft., and 24 manholes $3.00 each.

★**North Dakota**—State Highway Comn., Bismarck, let contract grading and building culverts on 31.5 mi. road north and west through Forman Twp., Sargent Co., to Larkin Constr. Co., Barry, Minn., $54,370. Noted Dec. 19.

★**Mo., Kansas City**—Bd. Pub. Wks. let contract paving Jackson Ave. from 15th to 24th Sts., Harrison St. from terminal viaduct to 21st St., sheet asphalt, Washington St. from 9th to 11th Sts., asphaltic concrete, to Gray Paving & Material Co.; Bway from 9th to 12th Sts., sheet asphalt, Walnut St. from 19th to 20th Sts., Harrison Ave. from 26th to 27th Sts. and Holly St. from 21st to 22nd Sts., asphaltic concrete, to F. P. McCormick; Myrtle Ave. from 23rd to 24th Sts. and Elmwood Ave. from 9th to 11th Sts., asphaltic concrete, to E. D. Tyner Constr. Co.; Jackson Ave. from 9th to 10th Sts., vertical fiber brick, to J. C. Lyle.

Mo., St. Louis—Pitzman's Co., engrs., 615 Chestnut St., received only bid for 96,000 cu.yd. grading on south line Euclid Ave. from Bircher Rd. to Florrisant Ave. from A. Manegold, Title Guaranty Bldg., at 20⅞c. cu.yd. Noted Feb. 27.

★**Okla., Tulsa**—Comrs. Tulsa Co. let contract building concrete road, to C. O. Frye, 312 East 14th St. and H. Frye, 1402 South Detroit St., $181,445.

★**Utah**—State Highway Comn., Salt Lake City, let contract macadamizing 9.5 mi. Ogden-Hooper Rd., 12 ft. wide, Weber Co., to Strange-Maguire Paving Co., Utah Savings & Trust Bldg., Salt Lake City, $65,192. Noted Jan. 23.

★**Ore., Warrenton**—Warrenton Rd. Dist. let contract building 3630 ft. Seaside Highway, 16 ft. wide, 1½ in. wearing surface, Topeka mixture on 5 in. concrete base, to M. O'Reilly Co., Blake-McFall Bldg., Portland, $17,796.

★**California** — State Highway Comn., Forum Bldg., Sacramento, let contract grading, graveling and draining 8.9 mi. road from near Shandon Pumping Sta. to East San Luis Obispo Co. line, 24 ft. wide, to C. H. Hudson, Marsh Strong Bldg., Los Angeles, $73,782. Work involves 78,-200 cu.yd. earth excav., 465 cu.yd. concrete culverts, 3500 cu.yd. gravel, 1000 lin.ft. guard rail and 2710 lin.ft. 12-36 in. corrugated metal pipe. Noted Feb. 20.

★**California** — State Highway Comn. Forum Bldg., Sacramento, let contract grading 15.1 mi. and paving 11.4 mi. road, 12 ft. wide on 4 in. base, between Tecade Divide and San Diego Co., to O. G. Ritchie, Niles, $233,273. Work involves 66,000 cu. yd. excav., 11,140 cu.yd. concrete pavement, 390 cu.yd. concrete culvert, 2949 ft. 18-30 in. corrugated pipe, etc. Noted Feb. 20.

Railways

PROPOSED WORK

Massachusetts—F. P. Huckins et al applied to State Legislature for authority to incorporate East Boston Waterfront Freight Ry. to build railroad in East Boston to connect with Boston & Albany R.R. About $250,000 will be expended.

New York—Northern New York Utilities Inc., Light & Power Bldg., Watertown, has secured options on land along north bank of Black River for possible interurban trolley system connecting Watertown with Cape Vincent and passing through Glen Park, Brownville, Dexter, Chaumont, Three Mile Bay, Rosiere and Cape Vincent. Total length 30 mi. J. B. Taylor, Watertown, pres.

Texas—Ft. Smith & Western Ry., Ft. Smith, Ark., plans to extend line 16 mi. in El Reno. A. L. Mills, Ft. Smith, Ark., mgr.

Quebec—Canadian Pacific Ry., Windsor St. Sta., Montreal, has appropriated $236,-000 for improvements to freight yard at Three Rivers. C. I. Fairbairn, Montreal, ch. engr.

Quebec—Quebec Central Ry., Wellington St., Sherbrooke, plans to build branch line from Scott Junction to Quebec, about 20 mi. J. H. Walsh, Sherbrooke, genl. mgr.

British Columbia—Canadian Pacific Ry., Canadian Pacific Ry. Sta., Winnipeg, Man., having preliminary plans prepared for following improvements: locomotive washing plant at Revelstoke; transfer barge and new car slip at Okanagan Lake; modern coaling plant at North Bend; extension to engine house at Cranbrook; new engine house at Sidney; large steel turntables at Field and Revelstoke and additional trackage facilities at Revelstoke and Vancouver. J. G. Sullivan, Winnipeg, Man., ch. engr.

British Columbia—Esquimalt & Nanaimo Ry., Victoria, plans to extend line from Bainbridge on Alberni line north to Ucluelet and Clayoquot and from Bainbridge east to Comox Lake. R. A. Bainbridge, Victoria, engr.

Excavation and Dredging

PROPOSED WORK

Fla., Safety Harbor — Dredging — See "Miscellaneous."

Ill., Winnetka—Excavation—See "Streets and Roads."

S. D., Pierre—Excavation—See "Streets and Roads."

Cal., Coachella — Irrigation — Coachella Valley Water Dist. has been granted permit to divert water from Whitewater River and Snow Creek for irrigation and domestic uses on 25,000 acres in Coachella Valley, and for domestic needs in Coachella, Indio, Thermal and Mecca Twps. About $10,000.

BIDS DESIRED

S. C., Orangeburg—Drainage—Until Mar. 27, by C. P. Roberts and J. M. Johnson, Orangeburg, building drainage system here, consisting of 31 canals, 58 mi. of which have bottom width of from 2-6 ft., but most to have bottom width of 3 ft., canals to have side slope of 1 to 1 and average depth of 5 ft. totaling 303,000 cu.yd.; also building 20 mi. dredge canal, 16 ft. bottom width, side slope 1 to 1 averaging about 7 ft. deep., and 44 wooden bridges to be built across small canals and 12 across large canals. J. M. Brailsford, Orangeburg, comr.

Ill., Whiteside—Ditch—Until Apr. 4, at office of C. E. Sheldon, Sterling, for deepening and widening, etc., ditch, 37,765 ft. long, in D.D. No. 1, Hahnaman Twp., Whiteside Co., involving 101,211 cu.yd. excav.; advertised in this issue.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

Va., Petersburg—See "Miscellaneous."

★**Minn., Mankato**—Ditch—Blue Earth Co. let contract building Judicial Ditch No. 24 in Blue Earth, Martin and Faribault Counties, to North Star Concrete Co., Mankato, $66,924.

★**Minn., St. James**—Ditch—Comrs. Watonwan Co. let contract building Judicial Ditch No. 26, to E. Dahl & Co., Madelia, $10,279. Work involves 27,000 ft. 6-18 in. tile. Noted Dec. 19.

★**Ark., Jonesboro**—Ditch—Comrs. Cache River D. D., Craighead, Lawrence and Jackson Counties let contract building 22 mi. main ditch and 12 mi. lateral, to A. V. Wills & Sons, Boatman's Bank Bldg., St. Louis, Mo., $529,000. Work involves 5,000,-000 cu.yd. excav. at 9⅞c. per cu.yd. Noted Feb. 27.

Industrial Works

PROPOSED WORK

Mass., Malden—Boston Dye House, Malden, had plans prepared by A. Golden, engr., c/o company, for 2 story, 80 x 100 ft. brick and concrete addition to factory on Main and Eastern Sts. About $50,000.

R. I., Providence—City plans to build garage on Harris and Kingsley Aves. About $75,000. W. E. Hartwell, comr. pub. bldgs.

Conn., Ansonia—S. Yudkin, 403 Main St., having plans prepared by O. Frantzke, archts., c/o owner, building 1 story, 200 x 202 ft. concrete garage, rein.-con. flooring and concrete foundation, on Central St. About $50,000.

Conn., Cheshire—State Legislature, Hartford, appropriated $80,000 to build factory at Cheshire Reformatory for boys.

Conn., Stamford—H. and H. Fdry. Co., 720 Pacific St., soon receives bids building 1 story, 60 x 200 ft. brick foundry, rein.-con. flooring, concrete foundation, on Pacific St. About $30,000. N. E. Emmons, Washington Bldg., archt. Noted Jan. 2.

N. Y., Bath—County Dairymen's League plans to build rein.-con. and brick dairy plant here. About $150,000. M. W. Davison, dir.

Industrial Works (Continued)

N. Y., Black River—Northern New York Utilities, Inc., Light and Power Bldg., Watertown, having plans prepared building rein.-con. power house, 2200 lin.ft. power canal, dam, forebay, etc. J. B. Taylor, Watertown, pres.

N. Y., Brooklyn—A. Paolello, 810 4th Ave., had plans prepared by C. P. Cannella, archt., 1163 Herkimer St., for 1 story, 22 x 41 x 72 x 102 ft. brick and steel garage, rein.-con. flooring, concrete foundation, on 27th St. and 4th Ave. About $45,000.

N. Y., Brooklyn—Shampan & Shampan, archts., 772 Bway., receive bids about Mar. 14, building 2 story, 100 x 100 ft. brick auto service station and show room, rein.-con. flooring, concrete foundation, on Montrose Ave. and Leonard St., for Lasky Motor Car Corp., 17 Graham Ave. About $75,000.

N. Y., Cortland—Local Dairymen's League plans to build milk plant here. About $50,000. N. F. Webb, pres.

N. Y., New York—Buick Auto Repair Shop, 244 West 49th St., had plans prepared by F. J. Bird, archt., 101 Park Ave., for 1 story, 100 x 200 ft., brick and steel garage, on 54th St. near 8th Ave. About $400,000.

N. Y., New York—State Legislature, Capitol, Albany, petitioned to appropriate $1,000,000 to provide for grain elevator at port of New York in connection with Gowanus bay canal terminal.

N. Y., Penn Yan—A. H. Burns plans to build concrete and brick grist and grinding mill on East Main St. About $60,000.

N. Y., Rochester—Eastman Kodak Co., Kodak Park, had plans prepared building 6 story, 162 x 182 ft., rein.-con. factory on Hanford Landing Rd. About $350,000.

N. Y., Rochester—Yawman & Erbe, 242 St. Paul St., having plans prepared for addition to plant. About $25,000. T. Hough, purch. agt.

N. Y., Syracuse—H. H. Franklin Automobile Co., 302 South Geddes S., purchased site at 215 Magnolia St., and plans to build addition to plant. Cost between $300,000 and $400,000.

N. Y., Utica—Utica Co-Operative Society, Inc., purchased site on Schuyler and Court Sts., and plans to build 2 story concrete bakery.

N. Y., Watertown—P. W. Devendorf, 145 Arsenal St., had plans prepared for 2 story, 72 x 150 ft., brick and tile garage and repair shop, concrete flooring. About $40,000.

N. Y., Watertown—New York Air Brake Co., Starbuck Ave., Northern New York Utilities Inc., Light & Power Bldg., J. B. Wise, 401 Mill St., and associates, plan to incorporate Beebee Island Corp. to develop power here. Plans include power house, new concrete dam, flumes and tailrace, installing 7500 hp generating units, etc. About $500,000 will be expended for work.

N. Y., Watertown—Northern New York Utilities, Inc., Light and Power Bldg., having plans prepared for addition to existing generating plant at Effley Falls, consisting of 30 x 38 ft. rein.-con. power house, 120 ft. of 7½ ft. steel penstock, revamping present dam, etc. J. B. Taylor, pres.

N. J., Ampere—General Electric Co. plans to build 1 story, 94 x 98 ft., concrete storage plant, concrete foundation. About $35,000. J. H. and W. G. Ely, Firemen's Bldg., Newark, archts.

N. J., Jersey City—Keystone Motor Car Co., Stegman St., plans to build concrete and brick plant on Communipaw and Bergen Aves. About $70,000.

Pa., Bethlehem—Traveler Tire Co., Traveler Bldg., Phila., plans to build 2 story, 80 x 250 ft. concrete, steel and brick factory near Reading R. R., here. About $250,000. J. O. Hunt, 114 North Montgomery St., Trenton, N. J., archt.

Pa., Phila.—Taubel Bros., Cedar and Huntingdon St., plans to build 3 story, 48 x 70 ft. brick and timber factory. About $30,000.

Md., Baltimore—Canton Air Brake Co., 563 Calvert Bldg., having plans prepared for 1 story, steel and concrete plant, stone and rein.-con. flooring. First unit to cost $180,000; ultimate cost, $1,000,000. R. Schoenwetter and C. A. Zarobsky, 563 Calvert Bldg., engrs.

Md., Cumberland—Berwin-White Coal Mining Co., Windber, near here, plans to build power plant. About $800,000.

Md., Curtis Bay (Baltimore P. O.)—Mexican Petroleum Co., 120 Bway., New York City, plans to build large refinery here. Plans include building bulkhead and filling in on 70 acre site. Total cost, $1,000,000.

Va., Norfolk—R. T. Lipscombe, 34 Virginia Natl. Bank Bldg., and associates, plan to build 100 x 400 ft., brick and steel, ice cold storage and dehydration plant. About $225,000. B. Mitchell, Seaboard Bank Bldg., archt.

W. Va., Huntington—Chesepeake & Ohio R. R., 9th and Main Sts., Richmond, Va., plans to build additions to its shops here. About $500,000. F. I. Cambell, ch. engr.

Fla., Pensacola—Texas Oil Co., Chipley St., plans to establish fuel oil station. About $1,000,000.

Ala., Florence—City retained Evans & Brown, engrs., P. O. Box, 94, to prepare plans for electric light plant.

La., Kaplan—See "Water-works."

O., Cleveland—Cleveland Automobile Co., East 131st St., plans to build brick and rein.-con. factory. About $500,000. E. McGeorge, 1900 Euclid Ave., archt.

O., Columbus—C. and E. Shoe Co., 56 East Fulton St., having plans prepared by Richards & McCarty, archts., Hartman Bldg., for 6 story, 87 x 120 ft. brick and rein.-con. factory on East Fulton St. About $100,000.

O., Dayton—See "Buildings."

Ind., Carthage—Carthage Box & Paper Co. plans to build 1 story, 100 x 265 ft. rein.-con. factory. About $50,000.

Mich., Detroit—C. R. Wilson Body Co., Clay Ave., plans to rebuild plant recently destroyed by fire. Loss between $300,000 and $400,000.

Ill., Troy—Troy Grain Co. plans to build concrete grain elevator, rein.-con. flooring and concrete foundation, between here and Edwardsville Twp. About $25,000.

Wis., Beaver Dam—H. J. Esser, archt., Camp Bldg., soon receives bids building 4 story, 52 x 250 ft. factory with 38 x 60 ft. wing, mill construction, concrete foundation, for Weyenberg Shoe Co., 130 Reservoir Ave. About $75,000.

Wis., Janesville—Parker Pen Co. having plans prepared by F. A. Carpenter, archt., 420 Brown Bldg., Rockford, Ill., building 3 story, rein.-con. and brick factory and office on Court St. About $100,000.

Wis., Waubesa—Madison-Kipp Lubricating Co., Madison, acquired site here and had tentative plans prepared for 1 story, 150 x 200 ft., concrete, brick and steel machine shop here. T. E. Coleman, vice pres. and genl. mgr.

Ia., Des Moines—Blackhawk Tire & Rubber Co. soon lets contract building factory. About $250,000. Sawyer & Watrous, 401 Hippee Bldg., archts.

S. D., Sioux Falls—Dakota Iron Store, Weber Ave., having plans prepared by Perkins & McWayne, archts., 322 Paulton Bldg., for 2 story, 90 x 150 ft. brick and concrete factory, rein.-con. flooring and concrete foundation, on 6th St. About $40,000.

N. D., Dickson—State Budget Com., Capital Bismarck, plans to build heating plant at State Normal School here. About $35,000 appropriated for project.

Mo., Boonville—Hamilton-Brown Shoe Co., Jefferson and Rand Sts., St. Louis, plans to build 3 story, 50 x 250 ft. brick factory here. About $40,000.

Mo., Marshall—City receives bids about Mar. 10, building municipal electric light plant. About $75,000. Henrici-Lowry Eng. Co., Commercial Trust Bldg., Kansas City, engrs. Noted Dec. 19.

Tex., Dallas—C. R. Miller, 5112 Swiss Ave., and associates having plans prepared by Lockwood Greene Co., archts., 60 Federal St., Boston, Mass., building cotton mill. About $500,000.

Utah, Ogden—California Packing Corp., 101 California St., San Francisco, having plans prepared by P. Bush, archt., 101 California St., San Francisco, for packing plant and warehouse here. About $200,000.

Ore., Astoria—Pacific Power & Light Co., Spalding Bldg., Portland, plans to build 4500 hp. electric generating plant at foot of Astor St.

Cal., Hanford—California Packing Corp., 101 California St., San Francisco, plans to build 1 story, 110 x 250 ft., brick and frame factory and power house, also number of cottages here. P. Bush, 101 California St., San Francisco, archt.

Cal., Long Beach—City authorized W. T. Lisenby, mayor, to investigate feasibility of building electric lighting plant and purchasing distributing system owned by Southern California Edison Co., Los Angeles. D. S. Miller, city engr.

Cal., Wineville—C. Stern & Sons, Van Nuys Bldg., Los Angeles, having plans prepared by Krempel & Erkes, archts., 415 Henne Bldg., Los Angeles, for remodeling winery buildings into fruit and vegetable cannery. About $100,000. Present buildings are 1 story, rein.-con. and brick, cement flooring.

N. B., Moncton—J. Eaton & Co., Ltd., 190 Yonge St., Toronto, had plans prepared for new factory here. Cost including machinery, $1,500,000.

Ont., Ottawa—Bd. Control authorized to have plans prepared and submit report on advisability of establishing central heating plant on Albert St. for city hall, police station No. 8, fire hall and registry office. About $80,000. A. F. McCallum, City Hall, engr.

Ont., Ottawa—Colonial Hide Co., 95 York St., soon lets contract building 3 story concrete factory and warehouse. About $40,000.

Ont., Ottawa—P. Labelle, 90 Guigues Ave., receives bids in spring building 3 story, 30 x 130 ft. storage warehouse, rein.-con., rein.-con. flooring and concrete foundation, on Dalhousie St. About $65,000.

Ont., Port Arthur—J. J. Carrick, 13 Cumberland St., North Ontario, plans to build pulp and paper plant here to consist of several 1 and 2 story rein.-con. buildings, rein.-con. flooring, concrete foundation. About $3,000,000. H. S. Ferguson, 200 5th Ave., New York, consult. engr.

Ont., Port Arthur—Ontario Hydro Electric Comn., Toronto, having preliminary sketches prepared for 1 story, 100 x 250 ft. rein.-con., steel and brick power plant, rein.-con. flooring, concrete foundation, on Nipigon River, Cameron Falls, near here. About $6,000,000.

B. C., Cranbrook—See "Railways."

B. C., Field—See "Railways."

B. C., North Bend—See "Railways."

B. C., Okanagan-Lake—See "Railways."

B. C., Revelstoke—See "Railways."

B. C., Vancouver—See "Railways."

B. C., Vancouver—W. J. Lowe, 1320 20th Ave., E., receives bids in April building 4 story, 75 x 120 ft., rein.-con. and brick garage, concrete foundation, on Davie and Seymour Sts. About $70,000. F. L. Townley, 325 Homer St., archt.

BIDS DESIRED

N. Y., Albany—Until Mar. 10, by Lockwood, Green & Co., archts., 101 Park Ave., New York City, building 3 story, 80 x 90 ft., brick and mill construction factory, brick foundation, for Van Slyke & Horton, 471 B'way. About $75,000.

N. Y., New York—Until Mar. 14, by L. A. Sheinart, archt., 192 Bowery, building 2 story, 98 x 117 ft., brick and steel garage, rein.-con. flooring and concrete foundation, at 526-546 West 42nd St., for S. K. W. Shellat, Newport, R. I., Marcus & Goldstein, 141 B'way., lessee.

S. C., Charleston—Until Mar. 25, by J. D. Newcomber, archt., Broad St., building 2 story 100 x 120 ft., rein.-con. garage on Meeting St., for Sottile Cadillac Co., 261 Meeting St. About $50,000.

Industrial Works (Continued)

Ma., Macon—Until Mar. 20, by W. H. Martin, city clk., improving power plant. About $45,000. F. L. Wilcox, Syndicate Trust Bldg., St. Louis, engr.; advertised in this issue.

N. B., Lake Edward—Until Mar. 10, by Dept. Pub. Wks., Ottawa, Ont., for building power house here. R. C. Wright, c/o Dept. Pub. Wks., Ottawa, archt.

Ont., Orillia—Until Mar. 31, by Dept. Pub. Wks., Toronto, building 5 story power house and hospital on Main St., rein.-con. and steel, rein.-con. flooring and concrete foundation. About $40,000 and $25,000 respectively.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Mass., Boston**—G. J. Wilson let contract building 1 story, 80 x 110 ft. rein.-con. and steel factory and sales building, rein.-con. flooring and concrete foundation, on Brookline Ave., to E. S. Butterfield Co., 88 Broad St. About $75,000.

★**Mass., Worcester**—Simplex Player Co., Boylston St., Boston, let contract building 4 story 50 x 55 ft. and 35 x 115 ft. brick and rein.-con. factory and storehouse on Blackstone St. here, to E. D. Ward Co., 82 Foster Park. About $80,000.

★**Conn., Derby**—General Ordnance Co., Housatonic Ave., let contract building 1 story, 30 x 250 ft. steel machine shop, rein.-con. flooring, concrete foundation, to Truss-Con-Steel Co., 207 Orange St., New Haven. About $25,000. Noted Dec. 19.

★**Conn., Waterbury**—Scovill Mfg. Co., 99 Mill St., will build 1 story, 124 x 197 ft. brick addition to factory, rein.-con. flooring and concrete foundation, on Hamilton Ave. About $50,000. Work will be done by day labor.

★**N. Y., Brooklyn**—Interborough Iron & Steel Co., c/o M. A. Cantor, archt., 373 Fulton St., will build 1 story, 100 x 100 ft., steel and brick garage, rein.-con. flooring and concrete foundation, on 6th Ave. and 62nd St. About $30,000. Work will be done by day labor.

★**N. Y., Holcomb**—W. N. Clark Co., 333 Hollenbeck St., Rochester, let contract building concrete factory consisting of one 2 story, 50 x 130 ft., one 1 story, 50 x 150 ft. and one 1 story, 70 x 80 ft. buildings, wooden flooring, to L. J. Held, 153 Plymouth Ave., Rochester. About $60,000.

★**N. Y., New York**—F. A. Munsey, 280 Bway., will build addition and alter existing printing plant. About $50,000. Work will be done by day labor. Noted Feb. 27.

★**N. Y., Utica**—L. F. Pilcher, state archt., Capitol, Albany, let contract building addition to central heating plant here, to R. G. Lloyd, 113 South St., $29,832.

★**Pa., Phila.**—Pennsylvania R. R., Broad St. Sta., let contract building 1 story, 24 x 468 ft. concrete, steel and brick roundhouse, rein.-con. flooring, concrete foundation, on 48th St. and Parkside Ave., to W. Steele & Sons Co., 16th St. and Parkway. About $85,000.

★**Pa., Phila.**—Powers, Weighton & Rosengarten, 916 Parrish St., let contract building 4 story, 28 x 40 ft. brick and timber factory, rein.-con. flooring, concrete foundation, on 9th and Parrish Sts., to R. C. Ballinger & Co., 218 North 13th St. About $30,000.

★**Pa., Temple**—Temple Malleable Iron & Steel Co. let contract building 1 story, 340 x 380 ft. steel and brick plant, concrete foundation, near Pennsylvania R. R. (Schuylkill Div.), here, to F. D. Chase, Peoples Gas Bldg., Chicago, Ill., percentage basis. Noted Feb. 27.

★**Md., Baltimore**—Crown Cork & Seal Co., 1511 Guilford Ave., let contract building two 1 story, 75 x 240 ft., concrete and steel warehouses, rein.-con. flooring, concrete and stone foundation, on Eastern Ave., as follows: grading and concrete work, to West Constr. Co., 907 Amer. Bldg., structural steel, to Patapsco Iron Wks., Inc., Ostend and Wicomico Sts.; galvanized iron work, to Phillipp-Kell Co., Inc., Holliday and Centre Sts. Total cost, $60,000.

★**Mich., Detroit**—Detroit Edison Co., David Whitney Bldg., let contract building 70 x 110 ft., brick and steel addition to central heating plant, concrete foundation, to A. A. Albrecht & Co., 1130 Penobscot Bldg.

★**Ill., East St. Louis**—Obear Nestor Glass Co., Bway. and Terminal R. R., let contract building 2 story, 82 x 190 ft. brick, steel and rein.-con. addition to plant, rein.-con. flooring and concrete foundation, to F. Ganschinietz, 501 North 18th St. About $65,000.

★**Ia., Cherokee**—Sache-Bunn Co., 322 3rd St., Sioux City, let contract building rein.-con. and brick implement building, rein.-con. flooring, concrete foundation, to Brown Bros., Hospers, $28,300. Noted Jan. 30.

★**Kan., Wichita**—Campbell Baking Co., 601-3 North Emporia St., let contract building 2 story, 60 x 140 ft. brick and rein.-con. addition to bakery, to N. T. Vorse, 911 S. and L. Bldg., Des Moines, Ia. About $100,000.

★**Ont., London**—Societe L' Air Liquide, 1 Ernest Maisonneuve, Montreal, let contract building plant here, to R. H. Harman & Co., 248 Dupont, Toronto. About $60,000.

Buildings

PROPOSED WORK

Mass., Brockton—Church and Parish—Unity congregation, c/o C. C. King, 106 Main St., plans to build brick on Warren Ave.

Mass., Lynn—Hotel—D. Grossman, Roxbury, receives bids about Apr. 1, building 7 story brick and concrete, concrete foundation on Lynn Shore Drive here. About $250,000. D. Sanborn, Lynn, archt.

Conn., Ansonia—Armory—Appropriation Com., Capitol, Hartford, petitioned to appropriate $100,000 to build state armory here.

Conn., Bridgeport—Store and Office—Zimmer Bros., 179 Golden Hill St., plans to build 4 story on Main St. About $50,000.

Conn., Hartford—Hotel—Berenson & Moses, archts., 26 State St., receive bids about Mar. 22, building 3 story brick apartment hotel, concrete foundation on Buckingham St. for D. Kaplan. About $60,000.

Conn., Meriden—Store and Office—E. Derecktor, 39 Crown St., had plans prepared by W. A. Donovan, archt., 3 Colony St., for 3 story, 40 x 75 ft. brick and timber, rein.-con. flooring and concrete foundation on West Main St. About $50,000.

Conn., New Haven—Business—Beecher & Bennett, Inc., 280 Elm St., having plans prepared by C. S. Palmer, archt., 191 Church St., for 2 story, 70 x 100 ft. brick, on Bway. and Howe St. About $60,000.

Conn., New London—Church—Federal St. Methodist Episcopal congregation plans to build brick and steel, rein.-con. flooring and concrete foundation on Broad St. About $100,000. Address M. R. Geuter, 193 Hempstead St., pastor.

Conn., Norwalk—Home—Comrs. Fairfield Co. (Bridgeport), having plans prepared by Davis & Dane, archts., 1024 Main St., Bridgeport, for 2 story brick addition on Westport Ave. here. About $50,000. Noted Feb. 6.

Conn., Stamford—Theater—S. Weiss and A. Geronimo purchased site on Park Pl. and plan to build. About $100,000.

Conn., Waterbury—Church—Immaculate Conception congregation, 97 East Main St., having plans prepared by J. A. Jackson, archt., 1133 Bway., New York City, rebuilding church on East Main St. About $100,000. L. Fitzsimmons, pastor.

N. Y., East Syracuse—Bank—East Syracuse Bank recently incorporated plans to build bank. About $50,000. Address Town Clerk.

N. Y., Greece—Memorial Hall—Town plans to vote on project to build 2 story, 45 x 90 ft., brick and concrete auditorium, town office and library. Cost between $40,000 and $50,000.

N. Y., New York—Office—Atlantic & Pacific Steamship Co., 7 Hanover Sq., soon receives bids for 5 story, 70 x 80 ft., brick and steel, concrete foundation, on Water St. and Old Slip. J. W. O'Connor, 3 West 29th St., archt.

N. Y., New York—Office—C. B. H. Gilbert, archt., 1123 Bway, soon receives bids building 12 story, 50 x 100 ft., brick and limestone, concrete foundation, at 6-8 East 44th St. Owner's name withheld.

N. Y., New York—Office and Loft—Baker, Carver & Morrell, 39 Water St., having plans prepared by Severence & Van Allen, archts., 4 West 37th St., for 9 story, 28 x 83 ft., steel and brick, concrete foundation, at 37 Water St. Noted Jan. 30.

N. Y., Norfolk—Library—A. B. Hepburn, Ogdensburg, will build 2 story, ornamental brick library here as gift to town. About $50,000; town will provide maintenance.

N. Y., Ogdensburg—Hotel—A. Irving, pres., chamber of commerce, and associates, plan to build. About $200,000.

N. Y., Potsdam—Memorial Community Center—Town considering holding election to vote on $150,000 bonds to build memorial building and community center. S. Watson, village pres.

N. Y., Rome—School—Bd. Educ. plans to build 2 story, 100 x 125 ft., on Linden St. About $120,000. W. T. Towner, 366 5th Ave., New York City, archt.

N. Y., Syracuse—Schools, etc.—Bd. Estimate & Apportionment request Council for authorization of $500,000 bond issue. About $200,000 will be used to build Prescott and Lincoln Schools; remainder will be used to extend park system, purchase and develop playgrounds, build addition to city hospital and new firehouse, etc. H. A. Allen, city engr.

N. J., Newark—Theater—F. W. Wentworth, archt., 140 Market St., Paterson, receives bids about April, building 2 story, 83 x 147 ft. steel motion picture theater, rein.-con. flooring, concrete foundation, on Branford Pl. near Broad St. here, for J. Fabian, 12 Union St., Paterson. About $500,000.

N. J., Orange—Memorial Hall—War Memorial Advisory Com. had plans prepared for civic center building. About $100,000.

N. J., Trenton—Mercantile—A. C. Nevius, 601 Rutherford Ave., plans to alter 5 story Y. M. C. A. on State St., into mercantile building. About $100,000.

Pa., Chester—Hotel—Foster Hotel Corp. having plans prepared by E. A. Wilson, archt., 1208 Chestnut St., Phila., for 4 story, 118 x 228 ft. brick and steel, on 9th and Welch Sts. About $250,000.

Pa., Pottstown—Memorial—Hill School Alumni Association plans to build memorial hall. About $100,000.

Md., Towson—Orphan Asylum—St. Vincents Male Orphan Asylum, York Rd., near here, plans to rebuild building recently destroyed by fire. Loss about $75,000. A. Deupert, 815 North Arlington Ave., Baltimore, pres. bd. mgrs.

Va., Charlottesville—Bank—Nat'l. Bank of Charlottesville having plans prepared by Marsh & Peter, archts., 522 13th St., Wash., D. C., for 8 story, steel and brick, concrete flooring. About $200,000.

Va., Norfolk—Schools—City appropriated $300,000 for new schools as follows: 1 in Colonial Pl., addition to Lott Cary School, 1 at Lamberts Point and completing addition to Walter Herron Taylor School.

W. Va., Morgantown—Law—State Bd. Control, Charleston, plans to build steel and cement law building at West Virginia University. About $125,000 appropriated for project. H. C. Jones, dean.

N. C., Charlotte—High School—Bd. Educ. plans to build 3 story, rein.-con., brick and tile. About $135,000. Edwards, Sayward and Leitner, Chamber Commerce Bldg., Atlanta, Ga., archts.

N. C., Sedalia—School—Bd. Educ. plans to build. About $70,000. H. Barton, Greenboro, archt.

Fla., Gainesville—Schools—Bd. Educ. Alachua Co. plans to build one 3 story high school and one 2 story industrial school, brick or tile. Total cost, $150,000. Edwards, Sayward and Leither, Chamber Commerce Bldg., Atlanta, Ga., archts.

Ala., Birmingham—School—Bd. Educ. had preliminary plans prepared by D. O. Whilldin, archt., Title Guarantee Bldg., for 1 and 2 story on Montevallo Rd. and Montgomery Highway, Shades-Canaba School Dist. 1-A. About $50,000. Noted Feb. 27.

La., Shreveport—Church—Highland Ave. Baptist congregation receives bids in June or July building steel and rein.-con., brick facing, on Olive and Stephens St. About $75,000. C. P. Roney, 1233 Jennings St., pastor. Noted Feb. 6.

Buildings (Continued)

La., Thibodaux— Church —St. Joseph's congregation plans to rebuild church. About $125,000.

O., Cleveland — Commercial — Cowell & Hubbard, East 6th St. and Euclid Ave., having plans prepared by Walker & Weeks, archts., 1900 Euclid Ave., building 2 story, (ultimately 8 stories) 80 x 200 ft. brick, on Euclid Ave. and East 13th St. About $300,000.

O., Cleveland — University — Industrial Assn. of Cleveland, 607 Arcade Bldg., plans to build 6 or 10 story, 100 x 200 ft. industrial university, brick, steel and concrete. Plans include 4 large class rooms, auditorium, gymnasium, swimming pool, billiard rooms, etc. About $1,000,000.

O., Columbus—Bank and Office—Franklin Loan and Savings Co., 347 South High St., receives bids about Mar. 15, building 6 story, 25 x 90 ft. brick and rein.-con., concrete foundation on High and Main Sts. About $163,000. F. L. Packard, Hayden Bldg., archt.

O., Dayton—Office, etc.—Buick Automobile Co., 130 North Main St., plans to build 2 story, 78 x 100 ft. brick and rein-con. office and garage, rein.-con. flooring and concrete foundation, at 413 South Main St.

O., Franklin—School—Bd. Educ. having plans prepared by E. J. Mounstephen, archt., 802 Union Bank Bldg., Dayton, for 2 story, brick and rein.-con., rein-con. flooring and concrete foundation. About $150,000. J. C. Null, clk.

O., Pittsburgh—School—Bd. Educ. having plans prepared by E. J. Mounstephen, archt., 802 Union Bank Bldg., Dayton, for 2 story, brick and rein.-con., rein.-con. flooring and concrete foundation, in Monroe Twp. About $100,000.

O., Yellow Springs—School—Bd. Educ. plans to build 1 story, brick and rein.-con., brick foundation. About $50,000. E. J. Mounstephen, 802 Union Bank Bldg., Dayton, archt.

Mich., Calumet—Hospital—Calumet Hospital Bd. plans to build 2 story brick hospital, rein.-con. flooring, concrete and rock foundation. About $50,000. M. S. Carlton, chn.

Mich., Grand Rapids—School—Bd. Educ. soon receives bids building two 3 story, 67 x 167 ft. brick, concrete and steel schools on Congress and Henry Aves. About $150,000 each. H. Turner, care Bd. Educ., archt.

Ill., Chicago—Administration—Bd. Educ. 7 South Dearborn St., plans to build administration building in downtown district. About $250,000.

Ill., Good Hope—High School—City voted $60,000 bonds to purchase site and build high school.

Ill., Griggsville—High School—Bd. Educ. plans to rebuild high school recently destroyed by fire. About $75,000.

Ill., Quincy—School—Bd. Educ. plans to build new Irving School. About $115,000.

Ill., Villa Grove—High School—Village voted $75,000 bonds to build high school.

Wis., Janesville—See "Industrial Works."

Wis., La Crosse—See "Miscellaneous."

Wis., Madison—City Hall—City plans to build. About $300,000. O. S. Norsman, city clk.

Wis., Milwaukee—Hotel—O. Webb, archt., 544 49th St., preparing plans for 12 story, 75 x 120 ft., brick and steel, rein.-con. flooring, concrete foundation. Owner's name withheld.

Wis., Milwaukee—Market—A. Kuenselmann, 450 Mitchell Ave., having plans prepared by W. G. Herbst, archt., 114 Grand Ave., building 1 story, 140 x 160 ft., rein.-con., concrete foundation, on Mitchell and 8th Aves. About $175,000. Noted May 9.

Wis., Milwaukee—Schools—Bd. Educ. plans to expend $800,000 to build here.

Wis., Superior—School—City plans to expend $250,000 to build ward school. E. McKeagul, city clk.

Wis., Watertown—Home—Lutheran congregation plans to build addition to home for feeble-minded. About $75,000.

Ia., Ft. Dodge—Fair—Hawkeye, Fair & Exposition, Inc., plans to build 72 x 150 ft. administration and woman's building, 72 x 150 exposition building, automobile show building, sales show pavilion and grand stand. About $75,000. E. C. Cameron, Alta, pres.

Ia., Ft. Dodge—High School—City voted $650,000 bonds to build high school. C. H. Reynolds, city engr. Noted Feb. 6.

Ia., Iowa City—Dormitory, etc.—State petitioned to appropriate $150,000 for girls' dormitory, $225,000 for botany and geology building, $70,000 for laboratory and $150,000 on nurses' building.

Ia., Shenandoah—Club—K. of C. Home Assn., c/o C. R. Jarvis, secy., plans to build here. About $50,000.

Minn., Round Lake—School—Bd. Educ. having plans prepared by G. Pass & Son, archts., Mankato, for consolidated school. About $50,000. B. C. Denkman, clk.

Neb., Lincoln — Capitol — State Legislature appropriated $5,000,000 to build here.

S. D., Hurley—School—Hurley Consolidated School having plans prepared by Perkins & McWayne, archts., 322-324 Paulton Bldg., Sioux Falls, for 2 story, 60 x 134 ft. brick, steel and concrete, concrete foundation. About $85,000.

S. D., Madison—Hospital—Madison Hospital Assn., having plans prepared by Perkins & McWayne, archts., 322-324 Paulton Bldg., Sioux Falls, building 3 story, 38 x 92 ft. brick and terra cotta, concrete foundation. About $75,000.

N. D., Dickinson—Dormitory—State Budget Com., Capitol, Bismarck, plans to build dormitory at State Normal School here. About $55,000 appropriated for project.

Mo., Jefferson City—Theater—F. B. Miller, archt., receives bids about May building 57 x 198 ft. brick and rein.-con., rein.-con. flooring and concrete foundation, on High St., for W. H. Mueller. About $60,000. Noted Jan. 23.

Mo., St. James—Home—Missouri State Soldiers Home plans to build addition to existing hospital, cost $20,000; miscellaneous additions, $20,000; elevators, $3500; new powerhouse equipment, $7600; septic tank, etc., $8000. W. V. Farris, pres. bd. mgrs.

Mo., St. Louis—Bank—L. Haeger, archt., 3844 Utah St., receives bids about Mar. 15, building 2 story, 60 x 100 ft. brick and concrete, on Grand and Hartford Aves., for Tower Grove Bank, Grand and Juaniata Aves. About $60,000. Noted Feb. 13.

Mo., St. Louis—Hotel—Hotel Realty Co., Mercantile Trust Bldg., purchased site on 13th St. from Locust to St. Charles Sts., and plans to build 12 story, 204 x 225 ft. hotel. About $2,000,000. F. J. Wade, pres.

Mo., University City (St. Louis P. O.)—Schools—City plans election to vote on $250,000 bonds to build schools. J. M. Atkinson, 10 Radcliffe Pl., chn. school bd. com.

Tex., Vernon—Hospital—Comrs. Wilbarger Co. plan election Mar. 22 to vote on $50,000 bonds to build memorial hospital.

Okla., Okmulgee — School — City voted $215,000 bonds to build 3 story high school and 4 room addition to grade school.

Okla., Pawhuska — High School — Bd. Educ. having plans prepared by Hawk & Parr, archts., 501 Security Bldg., Oklahoma, building 2 story, 150 x 150 ft. brick and rein.-con. About $95,000. A. C. Seely, clk.

Colo., Alamosa — Home — Odd Fellows plan to build. About $65,000. W. E. Simmons, chn.

Colo., Las Animas—Store—Thomas Mercantile Co. plans to build 50 x 150 ft. on Carson and Powers Sts.

Colo., Longmont—City Hall—City election in spring to vote on $55,000 bond issue to build City Hall.

Ore., Freewater—Bank—Milton 1st Natl. Bank plans to build on Evans and Depot Sts., here.

Ore., Marshfield—Home—Elks' Club plans to build home. About $60,000. G. Dix, chn.

Ore., Pendleton—Hospital—Sisters of St. Francis, Catholic Indian Mission, plan to build. About $100,000.

Ore., Pendleton—Store—Gritman Bros. purchased site on Webb and Willow Sts., and plan to build 1 story, 50 x 100 ft., brick.

Ore., Portland—Hospital—Senate petitioned to appropriate between $400,000 and $500,000 to build state hospital here.

Ore., Portland—Schools—Bd. Educ. considering $3,000,000 bond issue to build high and grade schools.

Cal., Sacramento — Store — Weinstock, Lubin & Co., Balboa Bldg., San Francisco, plans to build 8 story, 160 x 120 ft., department store on L St. here. About $1,000,000. S. W. McKim, pres.

Cal., Tulare—Schools and Auditorium—City Trustees and School Dirs. plan election Apr. 14, to vote on $90,000 bonds for 2 brick schools and $60,000 bonds for auditorium.

Que., Shawinigan Falls — Community — Shawinigan Water & Power Co., Station Ave., having plans prepared by D. J. Spence, archt., 246 Beaver Hall, for 3 story, 50 x 100 ft., on Transmission Ave. About $150,000.

Ont., Arnprior—Hospital—Hospital Bd. plans to build 4 story, rein.-con. and brick. About $100,000. J. S. Church, Arnprior, engr.

Ont., Bayswater—Club House—Knights of Columbus, c/o Bayswater Council, 1010 Wellington St., plans to build 3 story, 50 x 95 ft., brick and timber, concrete foundation, on Spadina Ave. About $60,000. Millson & Burgess, 309 Sparks St., Ottawa, archts.

Ont., London—Mausoleum—London Mausoleum Co. having plans prepared by A. H. McPhail, archt., Bd. Trade Bldg., Windsor, for mausoleum. About $100,000.

Ont., Ottawa—Hospital—City will petition Legislature for authority to raise $1,500,000 bonds to establish civic hospital. A. F. McCallum, City Hall, engr.

Ont., Ottawa—Townsite—City plans to form Civil Serv. Housing Assn. to build townsite in connection with Provincial Housing Act. About $800,000. G. N. Bowen, secy.

Ont., Owen Sound — School — Bd. Educ. having plans prepared building technical school. About $125,000.

Ont., Renfrew — Collegiate School — Bd. Educ. having plans prepared building here. About $142,000. S. T. Chown, engr.

Ont., Toronto—Federal—Dept. Pub. Wks., Ottawa, receives bids about Mar. 15 constructing combined custom house and Federal building here. R. C. Wright, c/o Dept. Pub. Wks., Ottawa, archt.

BIDS DESIRED

N. Y., Albany—Laboratory, etc.—Until Mar. 15, by H. M. Biggs, comr. of health, State Health Dept., building sterile rooms, laboratory, media hood, refrigerator, cupboards and shelvings, etc.; advertised in this issue.

N. Y., Brooklyn— School—Until Mar. 17, by Bd. Educ., 500 Park Ave., New York City, building P. S. 20, 5 story, 92 x 193 ft., brick and limestone, concrete foundation on Roebling St., North 4th and North 5th Sts. About $600,000. C. B. J. Snyder, Municipal Bldg., New York City, archt. Noted Nov. 28.

N. Y., Brooklyn—School—Until Mar. 17, by Bd. Educ., 500 Park Ave., New York City, building P. S. 182, 5 story, 118 x 192 ft., brick and concrete, concrete foundation, Dumont Ave. and Wyona St., $543,474. C. B. Snyder, Municipal Bldg., New York City, archt. Noted Feb. 6.

Pa., Palmerton—School—Until Mar. 14, by Bd. of Educ. building grade school. About $100,000. C. H. Lloyd, Telegraph Bldg., Harrisburg, archt. Noted Feb. 6.

Pa., Phila.—Drill—Until Mar. 21, by Armory Bd., Capitol Bldg., Harrisburg, building 1 story, 154 x 282 ft. rein.-con., steel and brick drill shed, rein.-con. flooring, concrete foundation, on Cuthbert St., 32nd to 33rd St., here.

Pa., Phila.—Hospital—A. A. Ziegler, archt., Bailey Bldg., receiving bids for 7 story, 41 x 91 ft. brick, on 7th and Delancy Sts., for Babies' Hospital of Philadelphia, 1126 Walnut St. About $80,000.

Pa., Pittsburgh—School—Until Mar. 14, by Bd. Educ., building 3 story, 30 x 80 ft. brick, steel and stone, brick foundation on 24th and Birch Sts. and building 3 story, 30 x 80 ft. addition to school on 18th and Farry Sts. About $50,000.

O., Kenmore—School—Until Mar. 10, by Bd. Educ., building 2 story, 69 x 127 ft. brick, rein.-con. flooring, concrete and brick foundation, on North 9th St. Cost between $90,000 and $95,000. A. R. Ritman, clk. M. P. Lamer, 207 People's Saving & Trust Bldg., archt.

Buildings (Continued)

Mich., Lansing—Office—Until Apr. 2, by Bd. State Aud., building 6 story brick and rein.-con library and office. E. A. Bowd, 129 West Allegan St., archt. Noted Feb. 27.

Tex., Dallas—Until Mar. 15 by Y. M. C. A., c/o B. B. Taylor, pres., Baton Rouge, La., constructing 4 story, 75 x 112 ft. building to include social and class rooms, gymnasiums, swimming pool, bathrooms and dormitories. Shattuck & Hussey, 19 South La Salle St., Chicago, archts.

Okla., Blackwell—Church—Until Feb. 18, by 1st Baptist congregation, building 3 story, 85 x 100 ft., brick. About $50,000. J. E. Greene, 1204 13th Ave., Birmingham, Ala., archt.

Que., Levis—Station—Until Mar. 15, by Dept. Rys., Ottawa, Ont., building on side track here. About $50,000. L. Brousseau, Levis, engr.

Que., Ste. Agathe — Sanitorium — Until Mar. 14, by A. Gagnon, secy. dept. pub. wks. & labor, Quebec, constructing seven rein.-con. and steel buildings at Laurentian Sanitorium. About $300,000. G. St. Michel, Parliament Bldg., Quebec, engr.

★**Ont., Hamilton**—Federal—Until Mar. 15, by Dept. Pub. Wks., Ottawa, constructing combined Federal building and custom house here. R. C. Wright, Dept. Pub. Wks., Ottawa, archt.

Ont., Kingston—Educational Block—Until Mar. 19, by Dept. Pub. Wks., Ottawa, building one 4 story, 106 x 168 ft., and one 3 story, 67 x 83 ft. rock face and cut stone buildings, rein.-con. flooring, rock foundation at Royal Military College here. About $400,000. R. C. Wright, Dept. Pub. Wks., Ottawa, archt.

Ont., Orillia—Hospital—See "Industrial Works."

Ont., Ottawa—Hospital—Until Mar. 20, by Salvation Army, 20 Albert St., Toronto, building 4 story, concrete, brick and steel, on Wellington St., here. About $150,000. Noted Feb. 6.

Ont., Ottawa—School—Until Mar. 31, by Dept., Pub. Wks., Toronto, building 3 story, 59 x 180 ft., normal school on Driveway, rein.-con., brick and steel, rein.-con. flooring. About $50,000.

Ont., Sydenham—Hospital—Until Mar. 13, by Dept. Pub. Wks., Ottawa, for altering and building additions to Military Hospital here. About $125,000. R. C. Wright, c/o Dept. Pub. Wks., Ottawa, archt.

Alta., Calgary—Federal—Until Mar. 15, by Dept. Pub. Wks., Ottawa, Ont., constructing combined Federal building and custom house here. R. C. Wright, c/o Dept. Pub. Wks., Ottawa, Ont., archt.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Conn., New Haven**—Hotel—J. P. Kaufman, 42 Church St., will build 5 story, 84 x 114 ft. brick, steel and concrete, rein.-con. flooring and concrete foundation, corner Orange and Bishop Sts. About $200,000. Work will be done by day labor.

★**Conn., New Haven**—Hotel—Puglisti & Millici, 20 Wight St., will build 4 story, 100 x 101 ft. brick, concrete and steel, rein.-con. flooring and concrete foundation, Boulevard and Chapel St. About $165,000. Work will be done by day labor.

★**Conn., Waterbury**—Theater—M. G. Witort, 789 Bank St., let contract building 1 and 2 story brick, rein.-con. flooring and concrete foundation, on Washington Ave., to M. P. Laukaitis, 25 Congress St. About $50,000.

★**N. Y., Brooklyn**—Theater—Kings Highway Corp., 1817 Kings Highway, let contract building 2 story, 104 x 120 ft., brick and steel moving picture theater, concrete flooring, on Kings Highway and East 12th St., to L. Gold, 44 Court St. About $175,000.

★**N. Y., New York**—Hotel—H. Claman, 241 West 43rd St., will build 10 story, 100 x 100 ft., steel and brick, concrete foundation, on 43rd St. near 8th Ave. Work will be done by day labor. Noted Jan. 23.

★**N. Y., New York**—Office—H. Jaeckel & Sons, 16 West 32nd St., let contract building 6 story, 25 x 155 ft., steel and brick addition, at 546 5th Ave., to Wharton Green & Co., 37 West 39th St. About $75,000. Noted Feb. 27.

★**N. Y., New York**—Schools—Bd. Educ. 500 Park Ave., let contract building P. S. 6, 5 story, 60 x 142 ft., brick, concrete foundation, on Tremont and Bryant Aves., Bronx, to T. A. Clark Co., 122 Livingston St., Brooklyn, $206,000; P. S. 57, 5 story, 118 x 192 ft., brick and steel, on Crotona Ave. and 181st St., Bronx, to Nugent Constr. Co., Park Ave., $456,282. Noted Feb. 20.

★**Md., Aberdeen**—House and Dormitory—Natl. Catholic War Council, 122 East 28th St., New York City, let contract building 2 story, 96 x 136 ft., frame, visitors' house and dormitory, wooden flooring, at Proving Grounds here, to Northeastern Constr. Co., 225 5th Ave., New York City. About $65,000.

★**Ind., Shelbyville** — Infirmary — Comrs. Shelby Co. let contract rebuilding 2 story, to R. Bryant, Franklin, $55,897. Noted Aug. 15.

Ill., Chicago—School—Bd. Educ. received following bids Feb. 19, building two 3 story, 39 x 62 ft. and 47 x 90 ft. brick and steel additions to Davis School on West 39th St. and South Sacramento Blvd., masonry, F. A. Siebold & Son, 133 West Washington St., $59,980; J. L. Connelly, 133 West Washington St., $62,400; H. Schrik & Co., 3722 West Chicago Ave., $63,293; terra cotta, Northwestern Terra Cotta Co., 175 West Jackson Blvd., $30,590; Midland Terra Cotta Co., 11 South La Salle St., $32,000; structural steel (250 tons), W. Horn Structural Iron Wks., 336 North Leavitt St., $25,870; Holmes Pyott & Co., 159 North Jefferson St., $26,557; Hansell Elcock Co., Archer and Normal Aves., $26,594; carpentry, F. Voss, $20,985; E. E. Young, $23,538; H. Reininga, $23,560. Noted Dec. 12.

★**Ia., Waterloo**—School—Bd. Educ. let contract building 3 story, 55 x 125 ft., rein.-con. and brick, to Lauritzen Constr. Co., 3319 East 4th St. About $75,000. Noted Feb. 13.

★**Neb., Barneston**—School—Bd. Educ. let contract building 2 story, 75 x 124 ft., brick and stone, to G. R. Unthank, Lincoln. About $51,961. Noted Feb. 6.

★**Okla., Hooker**—School—Bd. Educ. let contract building 3 story, 54 x 74 ft. brick and rein.-con. school in Dist. 23, to E. Slaedelin & Son, Medford. About $50,000.

Federal Government Work

PROPOSED WORK

Mass., Boston—Cranes—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to install electric traveling cranes in storage shed; Spec. 3822. About $15,000.

Mass., Quincy—School—U. S. Housing Bd., Dept. Labor, Wash., D. C., plans to build 2 story, brick, between 5th and German Aves. About $150,000.

N. Y., Charlotte—Custom House, etc.—City petitioned Treas. Dept., Wash., D. C., for new custom house and federal building.

D. C., Wash.—Radio Operators Room—Bureau Yards & Docks, Navy Dept., plans to build on roof of Navy Bldg.; Spec. 3821. About $3000.

Va., Hampton Roads—Additional Buildings—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to build at Air Sta.; Spec. 3823, to take place of Spec. No. 3818 which was cancelled. About $560,000.

Va., Yorktown—Extension to Naval Mine Depot—Bureau Yards & Docks, Navy Dept., Wash., D. C., rejected bids received Jan. 6. Noted Jan. 9.

Va., Yorktown—Tanks and Towers—Bureau Yards & Docks, Navy Dept., Wash., D. C., rejected bids received Dec. 2, installing a Naval Mine Depot. Noted Dec. 5.

Fla., Ft. Myers—Federal—Treas. Dept. plans to purchase site and construct federal building here.

La., Alexandria—Post Office and Court House—J. A. Wetmore, superv. archt., treas. dept., Wash., D. C., rejected all bids received Jan. 7, extending and remodeling post office and court house. Noted Jan. 16.

Mo., Charleston—Federal Office—Treas. Dept., Wash., D. C., appropriated about $60,000 for federal building here. J. A. Wetmore, Wash., D. C., superv. archt.

BIDS DESIRED

N. Y., West Point—Barracks, etc.—Until Mar. 27, by Quartermaster, building south wing of south cadet barracks and guard house; advertised in this issue.

Pa., Phila.—Cranes—Until Mar. 17, by Bureau Yards & Docks, Navy Dept., Wash., D. C., installing two 150 ton electric traveling cranes here; Spec. 3777. About $70,000; $10 deposit required for plans and spec.

Del., Wilmington—Dredging—Until Mar. 31, by U. S. Eng. Office, Old Federal Bldg., dredging Tuckerton Creek, N. J.

Md., Indianhead—Incinerator—Until Mar. 17, by Bureau Yards & Docks, Navy Dept., Wash., D. C., building at Naval Proving ground; Spec. 3790. About $7000; $10 deposit required for plans and spec. Noted Feb. 6.

D. C., Bellevue—Fuse and Primer House—Until Mar. 17, by Bureau Yards & Docks, Navy Dept., Wash., building fuse, primer storehouse and loading shop; Spec. 3737. About $25,000; $10 deposit required for plans and spec. Noted Jan. 2.

W. Va., Wheeling—Valve Operating Machinery—Until Mar. 24, by U. S. Eng. Office, Old Federal Bldg., furnishing and delivering valve operating machinery for Dams 23, 25 and 27, Ohio River; advertised in this issue.

Fla., Pensacola—Boatshed—Until Mar. 24, by Bureau Yards & Docks, Navy Dept., Wash., D. C., building wet basin boat shed; Spec. 3472. About $60,000.

Ky., Greenup — Lack and Abutment — Until Mar. 29, by U. S. Eng. Office, 1st. Dist., Cincinnati, O., building lock and abutment for Dam No. 30, Ohio River, near here; advertised in this issue.

O., Akron—Post Office—Until Mar. 21, by J. A. Wetmore, superv. archt., treas. dept., Wash., D. C., altering post office.

O., Cincinnati — Bear Trap Leaves — Until Apr. 4, by U. S. Eng. Office, 1st Dist., delivering and erecting bear trap leaves for Dam No. 30, Ohio River; advertised in this issue.

Kan., Eldorado—Post Office—Until Apr. 4, by J. A. Wetmore, superv. archt., treas. dept., Wash., D. C., building post office. Noted Feb. 27.

Neb., Omaha—Pumps, etc.—Until Apr 15, by J. A. Wetmore, superv. archt., treas. dept., Wash., D. C., installing 3 electric triplex elevator pumps, in courthouse, etc., here; advertised in this issue.

Mo., St. Louis—Drainage—Until Mar. 26, by Mississippi River Comn., 1311 International Bldg., constructing 47,000 cu.yd. earthwork in East Cape Girardeau and Clear Creek D. D., Ill.; advertised in this issue.

Tex., Honey Grove—Post Office—Until Apr. 2, by J. A. Wetmore, superv. archt., treas. dept., Wash., D. C., building post office.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Mass., Chelsea**—Kitchen Equipment—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract installing at Naval Hospital Reservation here, to Morandi-Proctor Co., 86 Washington St., Boston, $5270 (50 days). Noted Feb. 6.

★**Tiverton, R. I.**—Dry Dock—U. S. Shipping Bd., Emergency Fleet Corp., Phila., Pa., let contract building 20,000 ton floating dry dock, to Naragansett Shipbuilding Corp., Tiverton. About $1,000,000. Work involves 3000 tons steel and 4,000,000 ft. timber.

★**N. Y., Jamaica**—Pontoons—U. S. Shipping Bd., Emergency Fleet Corp., Phila., Pa., let contract building 33 timber pontoons at Jamaica Bay, Mill Basin, to Atlantic Gulf & Pacific Co., Mill Island. About $1,000,000.

★**N. Y., Kingston**—Dry Dock—U. S. Shipping Bd., Emergency Fleet Corp., Phila., Pa., let contract building 20,000 ton floating dry dock, to Kingston Shipbuilding Co., Island Dock. About $1,000,000. Work involves 3000 tons steel and 4,000,000 ft. timber.

★**N. Y., Rockaway**—Addition to Dispensary—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract, to Rangeley Constr. Co., 405 Lexington Ave., New York City, $22,444 (120 days). Noted Feb. 27.

★**N. Y., Rockaway**—Seaplane Hangar—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract, to Post & McCord, 101 Park Ave., New York City, $40,190. Noted Feb. 27.

N. Y., Walden—Post Office—J. A. Wetmore, superv. archt., treas. dept., Wash., D. C., received bids Mar. 3, (1) limestone; (2) sandstone, from J. Miles & Sons Co., 393 Main Grove, Worcester, Mass., (1)

Federal Government Work (Continued)

$67,449; (2) $68,049; Wills Egelhof Co., 101 Park Ave., New York City, (1) $67,674; J. L. Robinson Constr. Co., 66 Knickerbocker Bldg., Baltimore, Md., (1) $68,000. Noted Feb. 6.

★**N. Y., Wards Island**—Refrigerating Plant Equipment—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract installing at Naval Hospital Reservation here, to Frick Co., Inc., West Main St., Waynesboro, Pa., $21,074 (93 days). Noted Feb. 20.

★**Pa., Ft. Mifflin**—Tank and Tower—U. S. Eng. Office, Phila., let contract building steel water tank and tower here, to Pittsburgh-Des Moines Steel Co., 50 Church St., New York City, $6755. Noted Jan. 30.

★**Pa., Ft. Mifflin**—Water Pipe Line—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract, to M. J. B. McHugh, 892 North Markoe St., Phila., $30,877 (94 days). Noted Jan. 16.

★**Pa., Phila.**—Substation for Foundry, etc.—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract building substation for foundry and piers at Navy Yard, here to Wark Co., 1737 Filbert St., $7695 (45 days).

Md., Baltimore—Hospital—J. A. Wetmore, superv. archt., treas. dept., Wash., D. C., received bids Mar. 3, (1) building hospital unit A, (2) special hospital unit; (3) extensions and alterations to kitchen and mess hall; (4) attendants' quarters, etc., at U. S. Hospital here, from Newport Contg. & Eng. Co., Silsby Bldg., Newport News, Va., total $49,533; D. M. Andrew Co., Mt. Vernon Ave., total $61,000; H. S. Roberts & Co., 1123 Bway., New York City, total $63,900; Price Constr. Co., 210 Maryland Trust Bldg., (1) $24,900; (2) $37,300; (3) $9200; (4) $18,500; L. J. Eichner, Fayette and Liberty St., (1) $18,448; (2) $19,973; (3) $8929; (4) $10,788. Noted Feb. 13.

★**D. C., Wash.**—Barges—Inland Waterways Comn., Wash., let contract building 4 steel barges, to Star & Bennett, Newburn, N. C., $330,000.

★**D. C., Wash.**—Bridge—Dist. Comrs., Dist. Bldg., let contract building concrete encased steel plate girder bridge on South Dakota Ave. over tracks of Baltimore & Ohio R.R. (work complete) to C. Thompkins, 1883 3rd St., N. W., $32,400. Noted Feb. 20.

★**D. C., Wash.**—Hygienic Laboratory—J. A. Wetmore, superv. archt., treas. dept., Wash., D. C., let contract building with materials furnished by Government, to Boyle-Robertson Constr. Co., Inc., 601 Evans Bldg., $87,821 (6 months). Noted Jan. 23.

D. C., Wash.—Sidewalks—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids Mar. 3, laying cement sidewalks, here, (1) and (2) price per sq.yd., from A. F. Brenizer, 101 New York Ave., N. E., (1) $199; (2) $219; M. Bonomo & Co., 1605 Lexington Ave., New York City, (1) $295; (2) $312; A. C. Moses Constr. Co., 916 New York Ave., N. W., (1) $408; (2) $470. Noted Feb. 20.

★**Va., Arlington**—Roadway and Walks—C. S. Ridley, U. S. Engr., Wash., D. C., let contract building macadam roadway and gravel walks, to L. M. Johnston, Arlington. About $15,000.

Va., Norfolk—Dredging—U. S. Eng. Office, Norfolk, received lowest bid dredging Norfolk channel from Hampton Roads to Norfolk & Western Ry. bridge, from F. E. Jones, Norfolk, $1,026,500. Plans include dredging 64 acres anchorage in Norfolk Harbor between Craney Island lighthouse and railways coal piers to minimum depth at mean low water of 35 ft., widening 12 mi. channel from Hampton Roads to Norfolk & Western Ry. bridge, 300 yd. wide with minimum depth at mean low water of 40 ft., building bulkhead of brush and stone around Craney Island flats over distance of 6000 ft.

Va., Norfolk—Grandstand and Bleachers—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids Mar. 3, building at Naval Operating Base:

(1) net price and time for grandstand complete with grading immediately around building in accordance with drawings and specifications.

(2) net price and time for bleachers marked "B" complete with grading immediately around same in accordance with drawings and specifications. In connection with proposals on (2) bidder shall state net amount to be deducted for each 12 ft. bay omitted from bleachers "B" as in making award it may be desired to reduce length of bleachers by omitting one or more bays, from

Harwood & Moss, 307 Law Bldg., Newport News, Va., (1) $47,630 (110 days), (2) $16,800.

H. S. Roberts Co., 1123 Bway., New York City, (1) $51,151, (120 days); (2) $17,035.

Oscawana Bldg. Co., 101 Park Ave., New York City, (1) $56,700 (120 days); (2) $17,000 (120 days). Noted Feb. 27.

★**La., New Orleans**—Paint Shop and Storage Building—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract building at Naval Sta., to J. A. Petty, 608 Godchaux Bldg., $22,000 (100 days.) Noted Feb. 6.

Mo., St. Louis—Surgical Dressing Room—J. A. Wetmore, superv. archt., treas. dept., Wash., D. C., received bids building in U. S. Marine Hospital here, from P. H. Wall, St. Louis, $4980; W. MacDonald Constr. Co., St. Louis, $5166; W. Boencke, Maplewood, $5562. Noted Jan. 30.

★**Tex., Ft. Worth**—Cooling Pond—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract building at argon production plant, to Cooling Tower Co., 15 John St., New York City, $18,000 (145 days). Noted Feb. 27.

Cal., San Diego—Barracks—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids Mar. 3, building 7 rein.-con. hollow tile barracks at Marine Corps Base, concrete flooring and foundation, consisting of barracks A, 2 story, 42 x 182 ft., with 1 story, 41 x 66 ft. dormitory wings, 1 story, 29 x 43 ft. kitchen wing, barrack C, 154 x 182 ft. ell shaped, with 41 x 92 ft. and 41 x 73 ft. dormitory wings, 14 ft. connecting arcade, etc.

(1) net price and time for work complete in accordance with drawings and specifications.

(2) amount to be deducted from net price under (1) if toilet and wash rooms are finished as specified under alternative No. 1, paragraph No. 286, of specifications.

(3) net price and time for buildings A-2 to A-6 inclusive, and C-1 in accordance with drawings and specification.

(4) amount deducted from net price under (2) if toilet and wash rooms are finished as specified under alternative No. 1, paragraph No. 286, of specification.

(5) net price and time for buildings A-3 to A-6 inclusive and C-1 in accordance with drawings and specifications.

(6) amount deducted from net price under (5) if toilet and wash rooms are finished as specified under alternative 1, paragraph No. 286, of the specifications.

(7) price per lin.ft. for concrete piles in place to be used as specified in paragraph No. 36.

(8) price per cubic yard for preliminary excav. and disposal of excavated material in accordance with provisions of paragraph No. 28.

(9) amounts, (a) (b) and (c) to be deducted from or added to prices stated under (1), (3) and (5) respectively, for arranging and equipping all casement windows to swing inward in accordance with requirements of "Alternative Construction No. 2" as specified in Addendum No. 1, including all costs in connection with use of outside fixed screens instead of inside swinging screens and any other costs incident to such alternative construction, from

H. F. Friestedt Co., 327 South La Salle St., Chicago, Ill., (1) $1,191,835 (12 months); (2) $36,757; (3) $1,021,872; (4) $31,626; (5) $852,146; (7) add $1.75, deduct $0.55; (8) add $1.25; (9) (a) $14,700, (b) $12,677, (c) $10,642.

Paschen Bros., 111 West Washington St., Chicago, Ill., (1) $1,390,000 (time as specified); (2) $30,000; (3) $1,197,000; (4) $26,000; (5) $998,000; (6) $22,000; (7) $1.76; (8) $1.50.

Dawson Constr. Co., 310 Union Trust Bldg., Wash., D. C., submitted bid to San Diego. Amount of bid not known in Wash., D. C. Noted Feb. 13.

BARGE CANAL WORK—NEW YORK

Contract No. 69

Bids were received by Lewis Nixon, supt. pub. wks., Capitol, Albany, for protecting shore of Erie Basin between Lake St. and Slip No. 1, Buffalo, from (A) R. [illegible] Buso, Tonawanda, (awarded contract); (B) Mohawk Dock & Dredge Co., Manion Blk., Herkimer; (C) G. Park Sons Co., 217 15th St., Buffalo. The unit bids were as follow

	A	B	C
150 cu.yd. excavation	$3 00	$3 00	$3 60
300 cu.yd. cinder backfill	1 50	1 50	1 75
19 M.ft.b.m. sawed lumber	105 00	130 00	140 00
100 cu.yd. stone filling in cribs	104 80	4 50	4 75
110 cu.yd. second-class concrete	18 00	22 00	25 00
900 lb. structural steel	18 11	.10	10 10
60 cu.yd. first-class riprap	7 26	6 00	6 00
Total	$5,886 00	$6,690 00	$7,400 00

Contract No. 57

Bids were received by Lewis Nixon, supt. pub. wks., Capitol, Albany, constructing certain parts of an approach from Court St. and South Ave. to Barge Canal Terminal at Rochester, from (A) C. Kiehn, Gardner Bldg., Utica, (awarded contract); (B) Lupfer & Remick, Ellicott Sq., Buffalo; (C) M. Ludington Sons, Inc. 124 Powers Bldg., Rochester. The unit bids were as follows:

	A	B	C
13,900 cu.yd. excavation	$1 24	$0 75	$1 25
12,650 cu.yd. forming embankment	.25	.15	.25
42 cu.yd. 1: 1½: 3 reinforced concrete	24 00	28 00	28 00
1,340 cu.yd. first-class reinforced concrete	22 50	28 00	26 00
180 cu.yd. second-class concrete in column bases	16 73	24 00	25 00
2,285 cu.yd. second-class concrete, except as provided for by Item No. 5	13 42	15 00	12 00
1,490 lin.ft. concrete balustrade	4 00	4 00	4 00
143 cu.yd. stone filling for cribs	3 00	3 00	3 00
23 M.ft.b.m. timber in temporary cribs and fender	77 00	90 00	80 00
Wooden stairway (lump sum)	100 00	75 00	100 00
294,000 lb. metal reinforcement	.06	.057	07
935 lin.ft. metal curb bar	.42	.25	50
7,000 lb. cast-iron drains and outlet pipes	.07	.08	07
126 lin.ft. pipe railing	2 30	1 50	2 50
11 lamp poles	50 00	45 00	50 00
1,525 lb. metal duct	.25	.20	25
796 lin.ft. 3-in. fibre duct	.20	.15	20
120 lin.ft. 10-in. vitrified pipe and specials	.65	.70	70
163 lin.ft. 12-in. vitrified pipe and specials	.95	.70	1 00
168 lin.ft. 15-in. vitrified pipe and specials	1 22	1 00	1 10
1,675 sq.yd. brick pavement	2 87	3 00	2 25
2 manholes	110 00	100 00	110 00
6 gutter basins	65 00	60 00	70 00
24,200 sq.ft. waterproofing concrete	.0325	.02	015
167 lin.ft. drilling holes in existing masonry	1 50	1 00	1 50
10 cu.yd. relaying masonry	5 00	5 00	5 00
500 lin.ft. pointing masonry	.30	.30	.30
Removing superstructure of change bridge (lump sum)	10 00	10 00	50 00
Maintaining tra[illegible]c for pedestrians (lump sum)	100 00	100 00	100 00
Extended totals	$120,598	$123,962	$126,067

Miscellaneous

PROPOSED WORK

Coaling Station—Cape Vincent, N. Y.—G. Pyke of Pyke Towing & Salvage Co., 506 Princess St. Kingston, Ont., arranged with New York Central R. R. for large part of dock and wharfage facilities, and plans to build lake steamer coaling station with 200 ton per hour capacity.

Dock and Pavilion—Chaumont, N. Y.—Jefferson Co. Sportsmen's Assn. informed by New York State Conservation Comn. that state aid will be forthcoming for erection of concrete dock and pavilion; also necessary dredging, on Long Point, Chaumont Bay. About $20,000. B. C. Dennison, secy.

Playground, etc.—Syracuse, N. Y.—See "Buildings."

Dam, etc. — Watertown — Northern New York Utilities, Inc., Light & Power Bldg., plans to develop power at Brown's Falls. Plans include building dam, power house, flume and tailrace, on Oswegatchie River. J. B. Taylor, Watertown, pres.

Park and Golf Links—Maplewood, N. J.—South Orange Twp. plans to acquire 84 acre site for park and public golf links.

Meadow Development—Newark, N. J.—Dept. Sts. and Pub. Impvts. petitioned legislature to issue $500,000 additional bonds for meadow development. Plans include filling, grading and paving Haynes Ave. from Weston Ave. to Port St. A. Raymond, dir.

Hydraulic Riveter and Flanging Machine—Baltimore, Md.—Bartlett, Hayward Co., Scott and McHenry St., plans to install hydraulic riveter with 12 in. gap to drive 1 in. rivets, 1000 lb. W. P. and 14 in. hydraulic flanging machine, 100 tons, in proposed ship repair plant. Project is temporarily in abeyance, due to holding up of appropriations by Congress and failure of U. S. Shipping Bd. to co-operate.

Pier and Bulkhead—Baltimore, Md.—Bd. Awards soon lets contract building creosote treated wood pier on creosoted wood piles, and creosote treated timber bulkhead, both 300 ft. long, pier 37 ft. wide, at Bodkin Creek opposite Ft. Howard. About $25,000. B. P. Harrison, Recreation Pier, foot of Bway, city harbor engr.

Bulkhead—Curtis Bay (Baltimore P. O., Md.)—See "Industrial Works."

Jetties—Ft. Pierce, Fla.—City plans to issue $80,000 bonds; $65,000 to be used to construct protective jetties to extend into ocean, 300 ft. on south side and 600 ft. on north side of inlet; $13,000 to dredge waterway deeper from ocean to Indian River, involving 80,000 yds. excav. Cunningham & Hollowes, Ft. Pierce, engrs., Isham Randolph & Co., Barnett Bldg., Jacksonville, consultg. engrs.

Harbor Improvements—Safety Harbor, Fla.—Town plans to improve harbor. Work includes shelled driveway and filling to end of present seawall from which dock will be built 150 ft. out. Channel will be dredged at end of dock to be 80 ft. wide and 6½ ft. deep at low tide; also small pier on palmetto piling will be built to extend from dock and turning basin dredged around short dock. About $11,000. C. R. Knight, 710 Southern Blvd., Tampa, engr.

Transmission Line — Farmington, Ill. — Central Illinois Light Co., 316 South Jefferson Ave., Peoria, filed application with Utilities Comn. to install 13,000 volt transmission line from here to Gilchrist, 9 mi. long.

Memorial Center—La Crosse, Wis.—City plans to establish soldiers' and sailors' memorial and civic center. Work involves relocation of streets and railroad, development of several new buildings as social centers and adoption of zone system for building regulations. About $300,000. J. Nolen, Cambridge, engr.

Monument—Long Prairie, Minn.—Comrs. Todd Co. soon receive bids building soldiers' and sailors' monument. About $15,000. C. H. Johnston, 715 Capital Bank Bldg., St. Paul, archt.

Miscellaneous — St. James, Mo. — See "Buildings."

Extending Cemetery—Pendleton, Ore.—City plans to extend Olney cemetery 1730 sq. rods northward to paved road.

Pier—Seaside, Ore.—City having plans prepared for 2000 ft. pier, creosoted pitch. G. Boschke, engr.

Crushed Rock—Visalia, Cal.—Bd. Supervs. Tulare Co. received no bids Feb. 21, furnishing crushed rock for Springerville-Worth Rd. F. M. Pfrimmer, supervr., authorized to purchase rock. Noted Feb. 6.

BARGE CANAL WORK—NEW YORK

Contract No. 107

Bids were received by Lewis Nixon, supt. pub. wks., Capitol, Albany, for installing electric wiring, lighting, power and battery charging equipment for canal terminal at Erie Basin, Brooklyn, from (A) J. Livingston Co., 70 East 45th St., New York City; (awarded contract); (B) G. E. Eng. Co., Inc., 417 Canal St., New York City; (C) Lupfer & Remick, Ellicott Sq., Buffalo. The unit bids were as follows:

	A	B	C
14,000 lb. metal duct and fastenings	$0 15	$0 2375	$0 20
400 lin.ft. No. 12 single rubber-insulated braided conductors	04	055	06
1,030 lin.ft. No. 6 single rubber-insulated braided conductors	08	125	11
1,800 lin.ft. No. 2 single rubber-insulated braided conductors	18	17	20
780 lin.ft. No. 1 single rubber-insulated braided conductors	23	245	25
2,900 linft. No. 000 single rubber-insulated braided conductors	37	36	40
160 lin.ft. No. 0000 single rubber-insulated braided conductors	47	60	35
8,500 lin.ft. No. 12 duplex rubber-insulated braided conductors	07	075	09
960 lin.ft. No. 12 single lead-covered rubber-insulated braided conductors	14	08	10
950 lin.ft. No. 6 single lead-covered rubber-insulated braided conductors	17	19	15
440 lin.ft. No. 4 single lead-covered rubber-insulated braided conductors	29	205	27
800 lin.ft. No. 2 single lead-covered rubber-insulated braided conductors	31	275	25
1,850 lin.ft. No. 1 single lead-covered rubber-insulated braided conductors	35	30	30
200 linft. No. 000 single lead-covered rubber-insulated braided conductors	60	56	56
600 lin.ft. No. 0000 single lead-covered rubber-insulated braided conductors	68	56	50
100 lin.ft. 250,000 c.m. single lead-covered rubber-insulated braided conductors	85	97	77
600 lin.ft. 500,000 c.m. single lead-covered rubber-insulated braided conductors	1 05	1 125	1 00
320 lin.ft. No. 6 Triplex lead-covered rubber-insulated braided conductors	46	60	60
100 lin.ft. No. 2 Duplex rubber-insulated braided flexible cable	46	53	50
50 lin.ft. No. 0000 Duplex rubber-insulated braided flexible cable	1 64	1 80	1 50
1,900 lin.ft. No. 00 bare trolley wire	13	14	16
58 lighting fixtures "a"	14 50	14 05	14 00
22 lighting fixtures "b"	7 50	11 10	10 00
2 lighting fixtures "c"	140 00	49 00	51 50
8 lighting fixtures "d"	4 12	5 50	5 00
5 lighting fixtures "e"	3 60	4 40	4 60
9 lighting fixtures "f"	3 67	5 90	5 00
5 lighting fixtures "g"	6 20	9 40	6 60
88 lighting fixtures "h"	7 90	8 90	7 00
46 lighting fixtures "i"	9 80	10 70	8 50
1 lighting panel board "i" with doors and trim (lump sum)	58 00	54 00	33 00
2 lighting panel boards "II" and "III" with doors and trim	45 00	44 00	55 00
8 lighting panel boards "IV" to "XI" with cabinets	103 75	89 00	66 00
2 lighting panel boards "XII" and "XIII" with cabinets	77 50	65 00	51 00
36 push-button switches	1 30	1 33	1 50
32 receptacle outlets	1 55	1 70	1 50
4 safety-first enclosed fused lever switches "q"	47 50	20 00	15 00
23 power outlet receptacles "p"	25 00	32 20	15 00
46 trolley brackets	8 00	9 50	5 00
8 strain insulators and supporters	5 25	5 00	3 00
1 main switchboard (lump sum)	2,700 00	2,786 00	3,250 50
1 substation switchboard (lump sum)	2,320 00	2,079 00	1,850 00
1 25-k.w. motor-generator set (lump sum)	2,600 00	2,531 00	2,400 00
2 50-k.w. motor-generator sets	3,100 00	3,308 65	4,000 00
3 10-k.v.-ampere transformers	266 00	279 00	350 00
1 .v.-ampere transformer (lump sum)	85 00	84 00	100 00
Installing capstans (4) (each)	132 50	44 00	50 00
Trolley hoist bracket (lump sum)	200 00	237 00	400 00
Installing electric trolley hoist (lump sum)	35 00	112 00	25 00
Battery bench (lump sum)	140 00	112 00	110 00
4 battery-charging connector panels "X"	37 50	29 00	25 00
Extended totals	$28,239	$29,263	$29,592

Contract No. 223

Bids were received by Lewis Nixon, supt. pub. wks., Capitol, Albany, constructing Barge Canal Terminal freight shed at Greenpoint, Brooklyn, from (A) Post & McCord, 101 Park Ave., (awarded contract); (B) Harris Structural Steel Co., 1480 B'way.; (C) Carleton Co., Inc., all contractors of New York City. The unit bids were as follows:

	A	B	C
54 M.ft.b.m. sawed lumber	$92 00	$120 00	$120 96
34 cu.yd. first-class concrete	19 00	20 00	28 80
18 cu.yd. cinder concrete	6 00	10 00	9 52
594,500 lb. structural steel	062	0562	06423
450 sq.ft. 8-in. terra cotta tile	50	40	474
300 sq.ft. 6-in. terra cotta tile	45	35	384
2,100 sq.ft. 4-in. terra cotta tile	37	26	312
610 sq.ft. wood flooring	16	35	224
2,500 sq.ft. solid metal windows	85	90	8428
12 windows and sash	54 00	60 00	40 32
2 plain metal covered doors, 3 ft. 0 in. by 7 ft. 6 in.	58 00	60 00	46 48
6 glazed metal covered doors, 3 ft. 0 in. by 7 ft. 6 in.	58 00	68 00	46 48
6,048 sq.ft. warehouse doors	3 18	3 45	3 232
9,800 sq.ft. corrugated metal siding	29	38	347
4,900 sq.ft. flashing	37	42	42
21,900 sq.ft. roof covering	12	13	1277
810 lin.ft. gutters	1 50	1 50	1 657
240 lin.ft. corrugated conductors	68	60	474
250 lin.ft. 4-in. pipe conductors	2 05	1 60	1 61
4 flag poles	25 00	30 00	36 00
4 24-in. ventilators	35 00	34 00	36 96
1 8-in. ventilator	20 00	17 00	18 00
Extended totals	$75,719	$76,998	$79,920

BARGE CANAL WORK—NEW YORK, N. Y.

Contract No. 200

Bids were received by Lewis Nixon, supt. pub. wks., Capitol, Albany, for driving steel sheet piling, placing concrete lining and incidental work between Rochester and Lockport, from (A) Lupfer & Remick, Ellicott Sq., Buffalo; (B) Walsh Constr. Co., 114½ West 3rd St., Davenport, Ia.; (C) Lathrop, Shea & Henwood Co., Ellicott Sq., Buffalo; (D) Empire Eng. Co., Inc., 6 Church St., New York City, $192,215; (E) W. F. Martens, Cutler Bldg., Rochester, $192,767; (F) Troy Public Wks., Inc., Utica, $193,960; (G) J. W. Dawson & R. Provo, Syracuse, $195,888; (H) Mohawk Dredge & Dock Co., Manion Blk., Herkimer, $202,515; (I) The Foundation Co., 233 Bway., New York City, $205,976; (J) J. W. Holler, Ft. Edward $219,450; (K) Sperry Eng. Co., New Haven, Conn., $225,891; (L) P. H. Murray, Cutler Bldg., Rochester, $229,110; (M) Scott Bros., Rome, $235,437. The unit bids of the lowest 3 bidders were as follows:

	A	B	C
5,300 cu. yd. excavation	$1.68	$1.68	$1.68
22 M. ,b.m. sheeting and bracing	95.00	85.00	114.00
770 cu.yd. forming embankment	.20	.20	.24
2,300 sq.ft. ¼-in. steel sheet piling	.80	.75	1.68
77,000 sq.ft. ½-in. steel sheet piling	1.18	1.20	1.28
79,300 sq.ft. steel sheet piling (driving)	.31	.35	.32
2,900 cu.yd. 2nd-class concrete	15.00	15.00	15.00
500 cu.yd. wash wall	3.30	3.50	3.60
460 lb. structural steel	.10	.10	.12
1,040 lb. metal reinforcement	.10	.10	.12
730 cu.ft. removing concrete	.75	.90	.90
Sawing off existing wooden sheet piling (lump sum)	30.00	25.00	30.00
22,700 sq.ft. tar felt waterproofing	.20	.15	.216
Cofferdams, pumping, bailing and draining (lump sum)	1,400.00	1,440.00	1,440.00
Extended totals	$180,249	$183,735	$191,907

Contract 201

Bids were received by Lewis Nixon, supt. pub. wks., Capitol, Albany, for completing concrete prism lining at Cartersville and constructing stream entrance near Knapp's Bridge, from (A) I. M. Ludington Sons, Inc., 124 Powers Bldg., Rochester; (B) Michael H. Ripton, Rochester; (C) Amer. Pipe & Constr. Co., 112 North Broad St., Phila.; (D) E. W. Foley Contg. Corp., New York City, $49,786; (E) Cleveland & Sons Co., Brockport, $53,255; (F) Rosoff Eng. Co., 15 Park Row, New York City. The unit bids of the lowest 3 bidders were as follows:

	A	B	C
8,870 cu.yd. excavation	$1.20	$1.25	$1.60
3,930 cu.yd. forming embankment	.15	.15	.15
2,400 cu.yd. 2nd-class concrete	10.00	11.25	11.50
3,220 sq.yd. excavating concrete slab	.75	.65	.75
160 cu.yd. 3rd-class rip-rap	4.50	4.50	4.50
360 cu.yd. wash wall	3.50	3.50	3.30
2,250 sq.ft. wire mesh reinforcement	.055	.055	.055
50 lin.ft. cutting steel sheet piling	1.25	1.25	1.25
10 lin.ft. 2-in. iron pipe	1.00	1.00	1.00
Cofferdams, pumping, bailing and draining (lump sum)	3,000.00	2,500.00	2,600.00
Extended totals	$42,825	$45,446	$49,501

PIER—PHILADELPHIA, PA.

Bids were received by Department of Wharves, Docks & Ferries, Feb. 14, for constructing Kenilworth St. Pier No. 30, South Wharves, from (A) F. W. Mark Constr. Co., Inc., Finance Bldg., (awarded contract); (B) Post & McCord, 101 Park Ave., New York City; (C) Hughes-Foulkrod Co., Commonwealth Bldg.; (D) Empire Eng. Co., Inc., 1206 South 31st St., $973,600; (E) William Steele & Sons Co., 16th and Arch St., $987,210; (F) McArthur Bros. Co., 120 B'way. New York City, $988,332; (G) Snare & Triest Co., Penn Bldg., $990,990; (H) Raymond Concrete Pile Co., Finance Bldg., $1,000,560; (I) Warren Moore & Co., 13th and Market Sts., $1,161,100; (J) Brown & Simpson, $1,505,727; (K) Arthur McMullen & Co., 149 B'way. New York City, $1,524,205. The unit bids of the lowest 3 bidders were as follows:

	A	B	C
Entire work (lump sum)	$763,800.00	$780,000.00	$853,000.00
100,000 cu.yd. dredging	.41	.40	.36
800 tons rip-rap	5.00	7.00	3.60
30,000 tons gravel or cobble fill	2.00	1.50	1.32
5,000 sq.yd. sheet asphalt paving	2.40	3.00	2.09
5,000 sq.yd. asphalt block paving	3.60	3.25	3.30
1,200 sq.yd. repaving granite block	1.10	1.10	.92
1,000 hrs. mechanics with tools	1.00	1.50	1.10
1,000 hrs. laborers with tools	.70	1.00	.55
10 days dredging plant, 10-hr. day	260.00	300.00	255.00
10 days dredging plant, 20-hr. day	400.00	600.00	500.00
Extended totals	$908,420	$914,670	$968,734
Unit prices for additional work:			
Bearing piles (per pile)	$45.00	$35.00	$37.00
Spur piles (per pile)	50.00	36.00	40.00
Pile shoes (per shoe)	5.00	3.00	3.00
Sheet piling (per hor.ft.)	50.00	28.00	37.00
New sawed yellow pine (per M.ft.b.m.)	190.00	128.00	120.00
Bolts, nuts, washers, nails, etc. (per lb.)	.15	.11	.11
No. 1 concrete (per cu.yd.)	24.00	17.60	37.00
No. 2 concrete (per cu.yd.)	12.50	16.50	18.00
Reinforcing steel (per lb.)	.05½	.08½	.07
Bollards (each)	150.00	172.00	85.00
Mooring posts (each)	260.00	450.00	150.00
Corner protection shapes (per lb.)	.10	.20	.10

Miscellaneous (Continued)

Drydock—Three Rivers, Que.—Tidewater Shipbuilding Co. having plans prepared for drydock to cost $100,000; pile work, $40,000.

BIDS DESIRED

Miscellaneous Supplies — Albany, N. Y.—Until Mar. 18, by State Highway Comn., Capitol, Albany, furnishing Contr. 1, bituminous material, cold patch asphaltic emulsion in Div. 1, 2, 3, 4 and 5; Contr. 2, bituminous material cold patch asphaltic emulsion in Div. 6, 7, 8 and 9; Contr. 3, bituminous material asphaltic cut back; Contr. 4, bituminous material A, binder; Contr. 5, bituminous material A, light cold oil and light hot oil; Contr. 6, bituminous material T, cold patch, Contr 7, bituminous material T, binder and cold application; advertised in this issue.

Break in Levee—El Centro, Cal.—Until Mar. 18, by Imperial Irrigation Dist., closing break 5600 ft. wide in levee in Mexico involving 92,000 cu.yd. earthwork, 8 mi. leverment on Volcano Lake levee in Mexico and 120,000 yd. rock from district quarries.

Subway, Foundation, etc.—St. Boniface, Man.—Until Mar. 20, by E. Gagnon, secy. provencher bridge com., for excavating and building foundation and superstructure for Water St. subway.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★Castings — New York, N. Y.—N. J. Hayes, comr. water supply, gas and electricity, let contract furnishing, delivering, unloading, stacking and storing c.i. valve box castings, to J. Fox & Co., 253 Bway., $6152. Noted Feb. 27 under "Waterworks."

Rebuilding Ferry Racks — New York, N. Y.—J. A. Delaney, comr. plant and structures, received bids Feb. 26, for rebuilding ferry racks at Manhattan Terminal of Staten Island ferry; lowest 3 were: A. M. Hazell, Inc., 26 Cortland St., $78,758; A. N. Spooner & Son, Pier 11, North River, $80,441; P. T. Cox Contg. Co., 154 Nassau St., $89,600. Noted Feb. 20.

Tractors—New York, N. Y.—F. L. Dowling, pres. Manhattan Boro., received bids Feb. 28, furnishing and delivering 7 tractors, from Yorkville Motor Co., 1324 Lexington Ave., Ford, $8750, Dodge, $11,970; W. J. B. Motor Truck Co., $11,410; Kaufman-Stowers Co., $12,521. Noted Feb. 27.

★Boilers—Piping, etc.—Utica, N. Y.—L. F. Pilcher, state archt., Capitol, Albany, let contract installing boilers in central heating plant here, to McNaul Boilers Co., 983 Front St., Toledo, O., $58,130; heating and piping, to W. B. Armstrong Co., Fulton St., Albany, $39,640. Noted Feb. 20.

★Lighting System—Jersey City, N. J.—Nagle Packing Co., 683 Henderson St., let contract installing electric lighting system in plant, to W. Coleman, Willow Court. About $19,000.

Repairing Fenders—Newark, N. J.—Bd. Freeholders Essex Co., received bids Feb. 26, repairing fenders on (1) Lincoln Highway bridge over Hackensack River, (2) Lincoln Highway bridge over Passaic River, (a) price per pile (b) price per M for 30,000 ft. sheathing pine (c) price per M for 20,000 ft. sheathing pine, from Linde & Griffiths, foot of 4th Ave. (1a) $87.50, (1c) $337; Stillman-Delehanty-Ferris & Co., 26 Exch. Pl., Jersey City, (2a) $85, (2b) $325. Noted Feb. 20.

★Relining Culvert—Petersburg, Va.—City let contract relining brick house run culvert with rein.-con., to W. P. Thurston Co., Merchants Bank Bldg., Richmond. About $18,000. Work involves 50 cu.yd. earth and 200 cu.yd. rock excav., 75 cu.yd. rein.-con. and 400 cu.yd. mass concrete.

EXPORT OPPORTUNITIES

A. & T. Burt, Ltd., Dunedin, N. Z., general importers and exporters, would like to establish connections with American manufacturers of machinery and fittings, engineering requisites, lighting fixtures and similar lines with view to handling their goods.

Briscoe & Co., Ltd., Crawford and Bond Sts., Dunedin, N. Z., importers of steel bars and plates, wire rope, etc., would like to establish connections with American manufacturers.

Mohamedally Abdoolally & Co., Iron Jathe, Carnac Bridge, Bombay, India, are desirous of establishing connections with American manufacturers of galvanized, corrugated and plain sheets, steel angles, fees and plates, hoops, pipes and pipe fittings.

W. Rakers, 21 Chineesche Voorstraat, Sourabaya, Java, would like to establish connections with American exporters of tools, hardware and machinery.

Osaka Boeki Kaisha, Ltd., Osaka, Japan, would like to establish connections with American dealers in chemicals and metals with view to securing Japanese and Korean representation.

Juan Ortoll Delmotte, Santa Cruz, Teneriffe (Canary Islands), would like to secure exclusive representation of American lines of motor cars and accessories, hardware, wire and nails.

Joseph Boubes & Cie., Alexandria, Egypt, general importers of chemicals, iron and steel, cement and building lines would like to establish connections with American manufacturers.